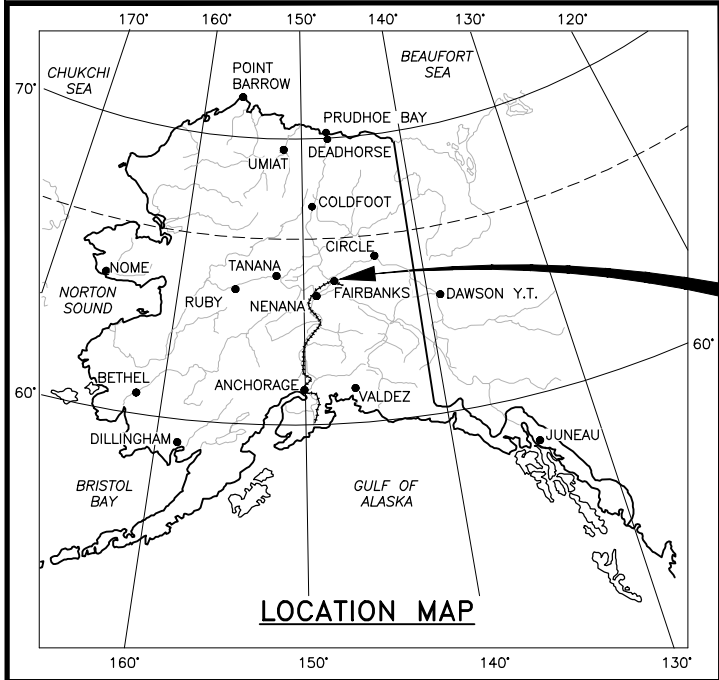


PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd., Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
Z:\PROJECTS\DOT\PF_385_Airport & Cushman Reconstruction\DWGS\C_Sheets\64078_A1_TITLE-A1 Fri, May/29/20 07:24pm



PROJECT
LOCATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT

0002312/Z640780000

AIRPORT WAY/CUSHMAN STREET INTERSECTION RECONSTRUCTION
GRADING, DRAINAGE, PAVING, SIGNING, STRIPING, ILLUMINATION & SIGNALIZATION

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	A1	88
			CDS ROUTE: 175700	MILEPOINT: 0.498	TO	0.203	
			CDS ROUTE: 176300	MILEPOINT: 2.626	TO	2.824	

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A2	LEGEND
A3	GENERAL NOTES AND ABBREVIATIONS
A4	PROJECT LAYOUT
B1-B6	TYPICAL SECTIONS
C1-C2	ESTIMATE OF QUANTITIES
D1-D4	SUMMARY TABLES
E1-E5	DEMOLITION PLAN
E6	SIDEWALK DETAILS
E7	MISC DETAILS
F1-F7	PLAN & PROFILE SHEETS
G1-G11	GRADING PLAN
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H8-H10	SIGNING SUMMARY
H11	SIGN SALVAGE SUMMARY
H12-H14	SIGN DETAILS
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L1-L8	LANDSCAPE PLAN
L9-L17	LANDSCAPE DETAILS
Q1-Q2	EROSION SEDIMENT CONTROL PLANS
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U1-U6	STORM DRAIN PLAN
U7-U9	STORM DRAIN SUMMARY TABLES

Plans-In-Hand
July 7, 2020
Northern Region

DESIGN DESIGNATIONS

	AIRPORT WAY	CUSHMAN STREET
ADT (2018)	17,000	8,500
ADT (2040)	20,700	10,360
DHV (%)	2,130 (10.30%)	1,070 (10.30%)
PERCENT TRUCKS (T)	4.8%	3.6%
DIRECTIONAL SPLIT (D)	40/60	40/60
DESIGN SPEED (V)	45 MPH	30 MPH*
DESIGN ESAL'S (2040)	1,050,000	825,000

*25 MPH NORTH OF
AIRPORT WAY

PROJECT SUMMARY

	AIRPORT WAY	CUSHMAN STREET	14TH AVENUE
WIDTH OF PAVEMENT	48' - 96'	36' - 60'	31.5'
LENGTH OF GRADING	1,565'	943'	241'
LENGTH OF PAVING	1,565'	943'	241'
LENGTH OF PROJECT	0.30 MI		

CARL HEIM, P.E., PROJECT MANAGER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

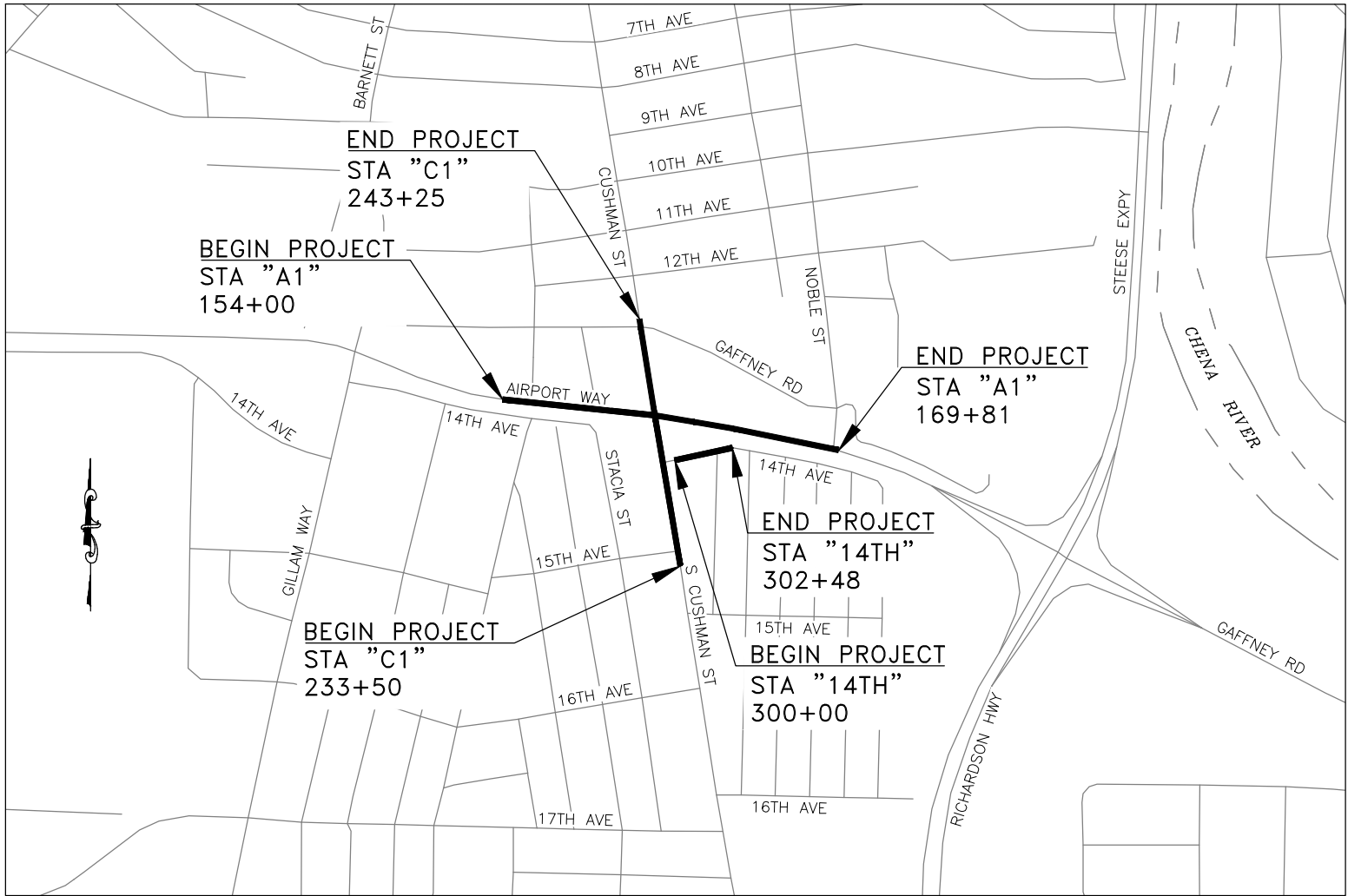
APPROVED BY:

Sarah E. Schacher, P.E.
Preconstruction Engineer, Northern Region

ACCEPTED FOR CONSTRUCTION:

Ryan F. Anderson, P.E.
Regional Director, Northern Region

VICINITY MAP
FAIRBANKS



PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND

5/29/2020

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(Aaron Finkler) K#:- 00385

LIST OF ABBREVIATIONS/SYMBOLS

AC ASPHALT CONCRETE
ADA AMERICANS WITH DISABILITIES REGULATIONS
ADEC ALASKA DEPARTMENT OF ENVIROMENTAL CONSERVATION
ADF&G ALASKA DEPARTMENT OF FISH AND GAME
ADT AVERAGE DAILY TRAFFIC
AH AHEAD
APPROX. APPROXIMATE
ARC ALASKA RAILROAD CORPORATION
ARR ALASKA RAILROAD
ATB ASPHALT TREATED BASE COURSE
& AND
BFS BEGIN FULL SUPERELEVATION
BMP BEST MANAGEMENT PRACTICE
BNC BEGIN NORMAL CROWN
BP/B.O.P. BEGINNING OF PROJECT
C CROSS
C&G CURB AND GUTTER
CF CUBIC FOOT
CGP CONSTRUCTION GENERAL PERMIT
€ CENTERLINE
COM. COMMERCIAL
CRT CONTROLLED RELEASE TERMINAL
CSP CORRUGATED STEEL PIPE
D DEGREE OF CURVATURE, DISTRIBUTION OF TRAFFIC, DIAMETER
Δ DELTA ANGLE
DB DITCH BOTTOM
DEC DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DESC DESCRIPTION
DHV DESIGN HOURLY VOLUME
DIA DIAMETER
DIP DUCTILE IRON PIPE
DIR. DIRECTION
DOT&PF DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
E EAST, EASTING
e SUPERELEVATION
EA EACH
ED ENERGY DISSIPATER
EFS END FULL SUPERELEVATION
E.G. FOR EXAMPLE
ELEV ELEVATION
ENC END NORMAL CROWN
EP/E.O.P. END OF PROJECT
EOTW EDGE OF TRAVELED WAY
ESAL EQUIVALENT SINGLE AXLE LOAD
ESCP EROSION AND SEDIMENT CONTROL PLAN
ETC. ETCETERA
EW OR E.W. EACH WAY
EX. EXISTING
°F DEGREES FAHRENHEIT
FASBC FOAMED ASPHALT STABILIZED BASE COURSE
FT OR ' FOOT
GA GAUGE
GALV. GALVANIZED
H HORIZONTAL
HBO HEADBOLT OUTLET
HMA HOT MIX ASPHALT
HMCP HAZARDOUS MATERIAL CONTROL PLAN
I.E. INVERT ELEVATION
IN OR " INCH
L LENGTH OF CURVE, LENGTH
LBS POUNDS
LF LINEAR FEET

LO. LOCATION
LT LEFT
LYC LENGTH OF VERTICAL CURVE
MAX MAXIMUM
M.E. MATCH EXISTING
MIN MINIMUM
MMA METHYL METHACRYLATE
MP MILE POST
MPH MILES PER HOUR
MTG. HT. MOUNTING HEIGHT
N NORTH, NORTHING
N/A NOT APPLICABLE
N.I.C. NOT IN CONTRACT
NO. OR # NUMBER
NPS NOMINAL PIPE SIZE
NTS OR N.T.S NOT TO SCALE
NW NORTHWEST
OC OR O.C. ON CENTER
O.D. OUTSIDE DIAMETER
PC POINT OF CURVATURE
PCC POINT OF COMPOUND CURVATURE
PERM. PERMANENT
PL PASSING LANE
PI POINT OF INTERSECTION
POC POINT OF CURVE
PRC POINT OF REVERSE CURVATURE
PST PERFORATED STEEL TUBE
PT OR P.T. POINT OF TANGENCY OR POINT
R RADIUS OF CURVE
RECP ROLLED EROSION CONTROL PRODUCT
REQ'D REQUIRED
RES. RESIDENTIAL
RMC RIGID METAL CONDUIT
ROW OR R/W RIGHT-OF-WAY
RT RIGHT
S SOUTH
SE SOUTHEAST
SF SQUARE FOOT
SH. SHOULDER
SPP STRUCTURAL PLATE PIPE
SPPA STRUCTURAL PLATE PIPE-ARCH
SQ.W. SQUARE FEET
STA. STATION
STD. DWG. STANDARD DRAWING
SWPPP STORM WATER POLLUTION PREVENTION PLAN
SY SQUARE YARD
T TANGENT DISTANCE, HEAVY VEHICLE PERCENTAGE
TCP TRAFFIC CONTROL PLAN
TEMP. TEMPORARY
TOC TOP OF CASTING
TS TUBE STEEL
TYP. TYPICAL
UG UNDERGROUND
UGE UNDERGROUND ELECTRIC
USACE UNITED STATES ARMY CORP OF ENGINEERS
USFWS UNITED STATES FISH AND WILDLIFE SERVICE
V DESIGN SPEED/VERTICAL
VMS VISUAL MESSAGE SIGN
VPC VERTICAL POINT OF CURVATURE
VPI VERTICAL POINT OF INTERSECTION
VPT VERTICAL POINT OF TANGENCY
W WEST, WATER
W/ WITH
WSP WOOD STAVE PIPE
WWM WELDED WIRE MESH

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	A3	A4

GENERAL NOTES:

1. PRINT OR REPRODUCE PLANS IN COLOR TO MAINTAIN CLARITY OF WORK SHOWN.
2. ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE RIGHT-OF-WAY (R/W) AND TEMPORARY CONSTRUCTION EASEMENTS (TCE).
3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THEIR OWN STAGING AREA.
4. PROTECT ALL EXISTING IMPROVEMENTS FROM DAMAGE UNLESS OTHERWISE NOTED.
5. SAW CUT ALL MATCH LINES WHERE NEW CONSTRUCTION ABUTS EXISTING ASPHALT PAVEMENT. APPLY STE-1 ASPHALT FOR TACK COAT ON THE VERTICAL FACE OF ALL SAW CUT ASPHALT.
6. SAW CUT CONCRETE (SIDEWALK, CURB AND GUTTER, DRIVEWAY, ETC.) AT THE NEAREST JOINT AT OR BEYOND MATCH LIMITS OR AS DIRECTED BY THE ENGINEER.
7. PLACE 4-INCHES OF TOPSOIL AND SEED TO ALL AREAS DISTURBED AND NOT OTHERWISE IMPROVED.

UTILITY NOTES:

1. THE LOCATION, SIZE, AND NUMBER OF EXISTING UTILITIES SHOWN IN THE PLANS ARE NOT EXACT. OBTAIN UTILITY LOCATES AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. VERIFY THE LOCATIONS OF BURIED UTILITIES IN THE FIELD PER THE SPECIAL PROVISIONS AND RECORD ANY CHANGES ON THE CONTRACTOR'S RECORD DRAWINGS. OBTAINING UTILITY LOCATES IS SUBSIDIARY TO OTHER WORK ITEMS.
2. WORK IN CLOSE PROXIMITY TO UNDERGROUND AND OVERHEAD ELECTRICAL SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL STATUTES, CODES, AND GUIDELINES AND THE ELECTRICAL FACILITY CLEARANCE REQUIREMENTS OF THE GOVERNING UTILITY.
3. HAND DIG WITHIN TWO FEET OF BURIED UTILITIES.
4. SUPPORT AND PROTECT UNDERGROUND UTILITIES, CONDUITS, AND STRUCTURES NOT SCHEDULED FOR DEMOLITION OR ABANDONMENT.
5. PROTECT OR REMOVE AND REPLACE IN SAME LOCATION EXISTING UTILITY MARKER POSTS DISTURBED DURING CONSTRUCTION.
6. SEE U SHEETS FOR ADDITIONAL REQUIREMENTS.



BEFORE YOU DIG
CALL FOR FREE
UNDERGROUND
LOCATION

Locate Call Center of Alaska
Statewide.....800-478-3121
will notify subscribed utilities only. Other
utilities need to be contacted individually.

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND

GENERAL NOTES AND
ABBREVIATIONS

5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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(Aaron Finkler) K#E#- 00385

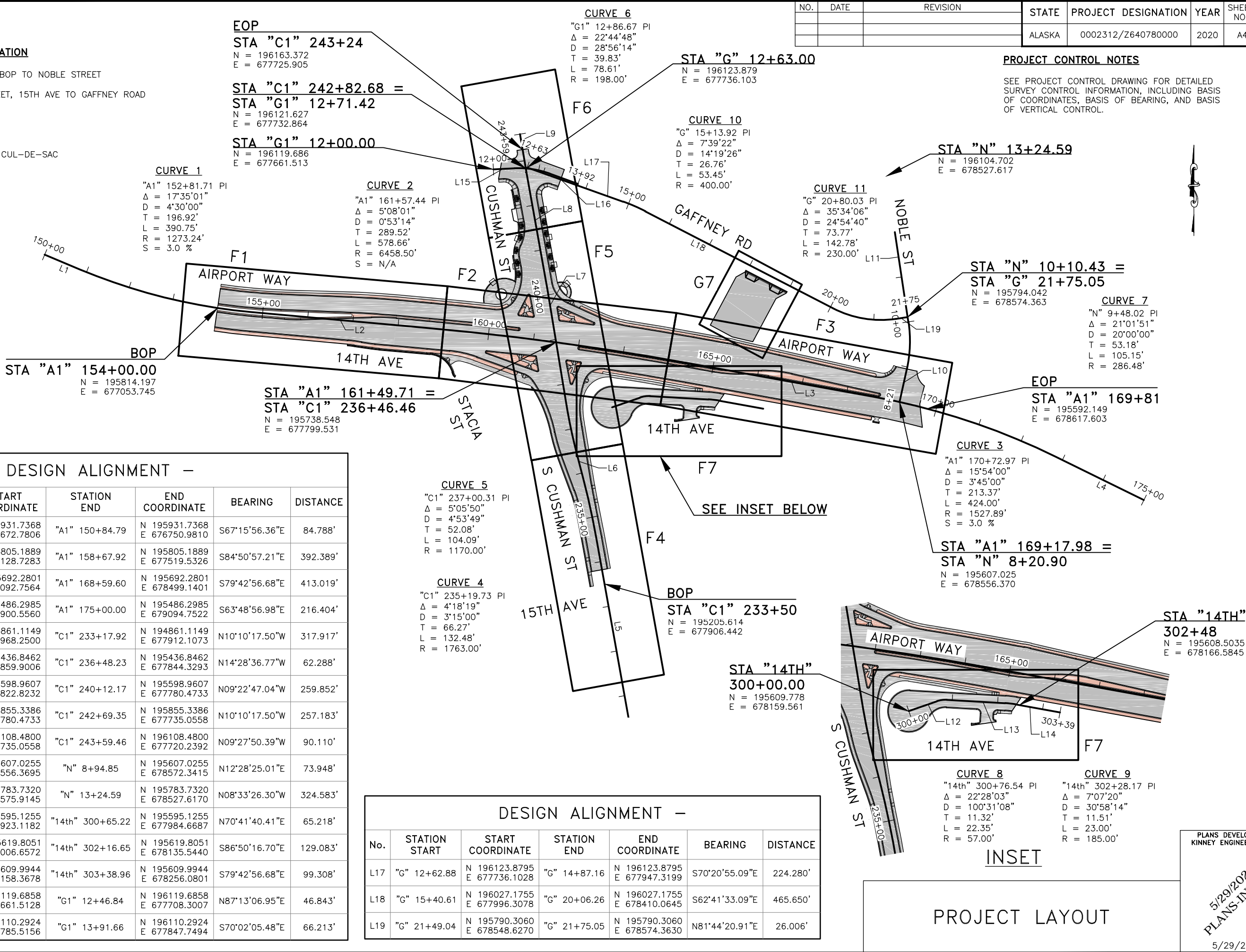
ALIGNMENT DESIGNATION

- "A1" AIRPORT WAY, BOP TO NOBLE STREET
"C1" CUSHMAN STREET, 15TH AVE TO GAFFNEY ROAD
"G1" GAFFNEY ROAD
"N" NOBLE STREET
"14TH" 14TH AVENUE, CUL-DE-SAC

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	A4	A4

PROJECT CONTROL NOTES

SEE PROJECT CONTROL DRAWING FOR DETAILED SURVEY CONTROL INFORMATION, INCLUDING BASIS OF COORDINATES, BASIS OF BEARING, AND BASIS OF VERTICAL CONTROL.



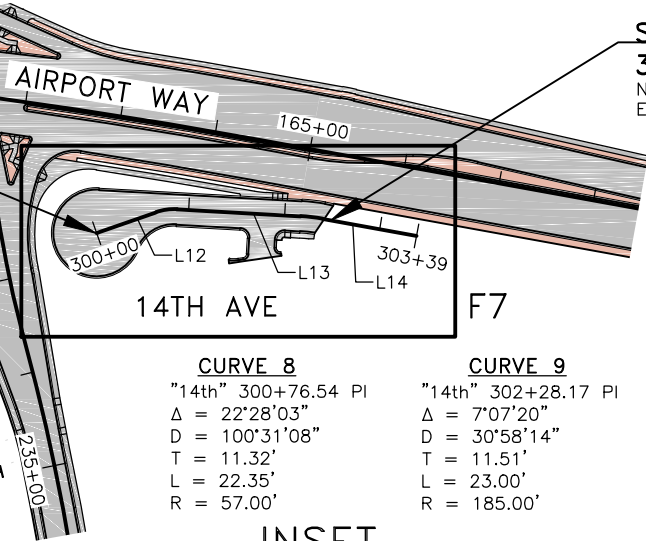
DESIGN ALIGNMENT -

No.	STATION START	START COORDINATE	STATION END	END COORDINATE	BEARING	DISTANCE
L1	"A1" 150+00.00	N 195931.7368 E 676672.7806	"A1" 150+84.79	N 195931.7368 E 676750.9810	S67°15'56.36"E	84.788'
L2	"A1" 154+75.53	N 195805.1889 E 677128.7283	"A1" 158+67.92	N 195805.1889 E 677519.5326	S84°50'57.21"E	392.389'
L3	"A1" 164+46.58	N 195692.2801 E 678092.7564	"A1" 168+59.60	N 195692.2801 E 678499.1401	S79°42'56.68"E	413.019'
L4	"A1" 172+83.60	N 195486.2985 E 678900.5560	"A1" 175+00.00	N 195486.2985 E 679094.7522	S63°48'56.98"E	216.404'
L5	"C1" 230+00.00	N 194861.1149 E 677968.2500	"C1" 233+17.92	N 194861.1149 E 677912.1073	N10°10'17.50"W	317.917'
L6	"C1" 235+85.94	N 195436.8462 E 677859.9006	"C1" 236+48.23	N 195436.8462 E 677844.3293	N14°28'36.77"W	62.288'
L7	"C1" 237+52.31	N 195598.9607 E 677822.8232	"C1" 240+12.17	N 195598.9607 E 677780.4733	N09°22'47.04"W	259.852'
L8	"C1" 240+12.17	N 195855.3386 E 677780.4733	"C1" 242+69.35	N 195855.3386 E 677735.0558	N10°10'17.50"W	257.183'
L9	"C1" 242+69.35	N 196108.4800 E 677735.0558	"C1" 243+59.46	N 196108.4800 E 677720.2392	N09°27'50.39"W	90.110'
L10	"N" 8+20.90	N 195607.0255 E 678556.3695	"N" 8+94.85	N 195607.0255 E 678572.3415	N12°28'25.01"E	73.948'
L11	"N" 10+00.00	N 195783.7320 E 678575.9145	"N" 13+24.59	N 195783.7320 E 678527.6170	N08°33'26.30"W	324.583'
L12	"14th" 300+00.00	N 195595.1255 E 677923.1182	"14th" 300+65.22	N 195595.1255 E 677984.6687	N70°41'40.41"E	65.218'
L13	"14th" 300+87.57	N 195619.8051 E 678006.6572	"14th" 302+16.65	N 195619.8051 E 678135.5440	S86°50'16.70"E	129.083'
L14	"14th" 302+39.65	N 195609.9944 E 678158.3678	"14th" 303+38.96	N 195609.9944 E 678256.0801	S79°42'56.68"E	99.308'
L15	"G1" 12+00.00	N 196119.6858 E 677661.5128	"G1" 12+46.84	N 196119.6858 E 677708.3007	N87°13'06.95"E	46.843'
L16	"G1" 13+25.45	N 196110.2924 E 677785.5156	"G1" 13+91.66	N 196110.2924 E 677847.7494	S70°02'05.48"E	66.213'

DESIGN ALIGNMENT -

No.	STATION START	START COORDINATE	STATION END	END COORDINATE	BEARING	DISTANCE
L17	"G" 12+62.88	N 196123.8795 E 677736.1028	"G" 14+87.16	N 196123.8795 E 677947.3199	S70°20'55.09"E	224.280'
L18	"G" 15+40.61	N 196027.1755 E 677996.3078	"G" 20+06.26	N 196027.1755 E 678410.0645	S62°41'33.09"E	465.650'
L19	"G" 21+49.04	N 195790.3060 E 678548.6270	"G" 21+75.05	N 195790.3060 E 678574.3630	N81°44'20.91"E	26.006'

INSET



PROJECT LAYOUT

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

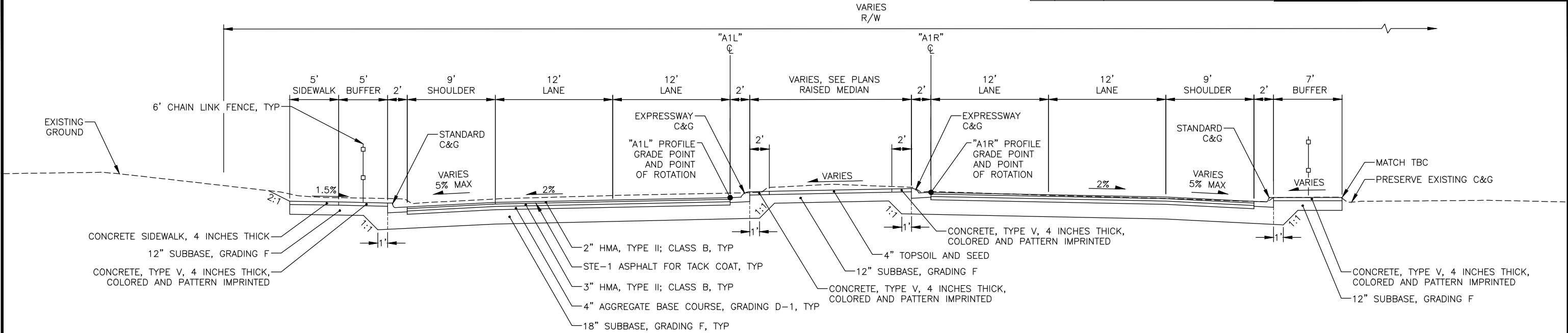
5/29/2020
PLANS-IN-HAND

5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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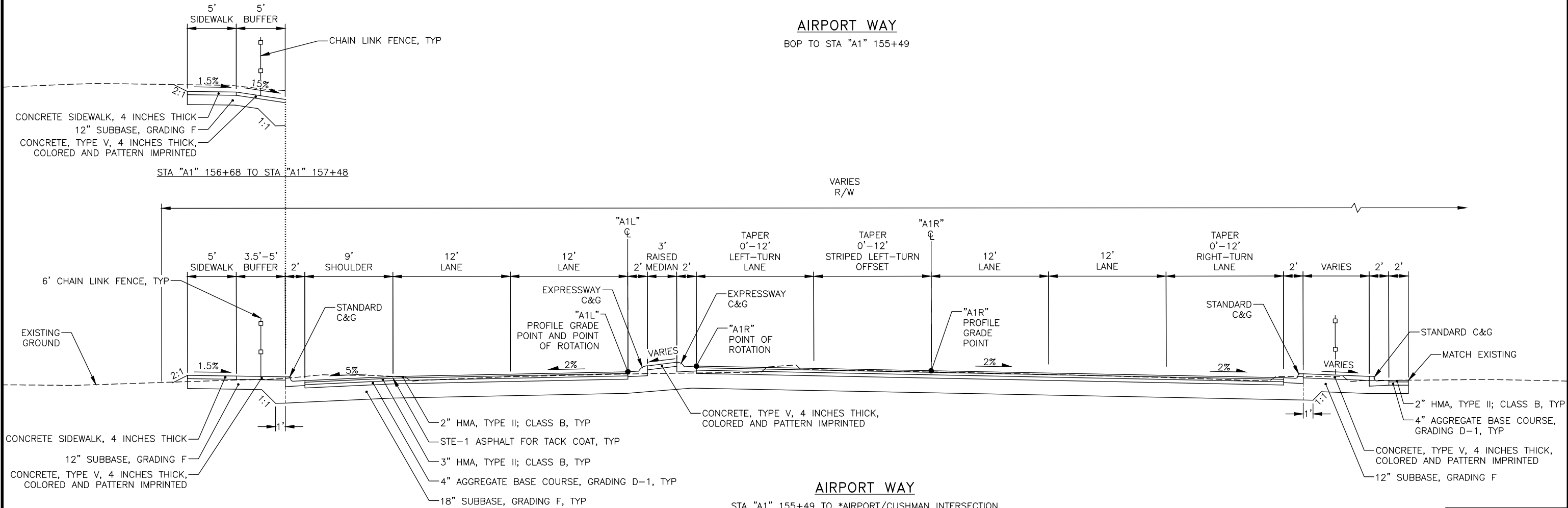
(Sophia Hurf) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	B1	B6



AIRPORT WAY

BOP TO STA "A1" 155+49



AIRPORT WAY

STA "A1" 155+49 TO *AIRPORT/CUSHMAN INTERSECTION

TYPICAL SECTION NOTES

- SEE G SHEETS FOR VARIANCES IN MEDIAN WIDTH, LEFT-TURN LANE WIDTH, LEFT-TURN LANE OFFSET, RIGHT-TURN LANE WIDTH, AND SHOULDER WIDTH.
- SEE G SHEETS FOR LAYOUT INFORMATION AT INTERSECTIONS. SAME PAVEMENT SECTION APPLIES THROUGH INTERSECTIONS.
- EDGE OF EXCAVATION OR CHANGES IN SUBBASE DEPTH SHALL BE SLOPED AT 1:1 WHERE EXCAVATION DEPTH IS LESS THAN 4 FEET.

TYPICAL SECTIONS

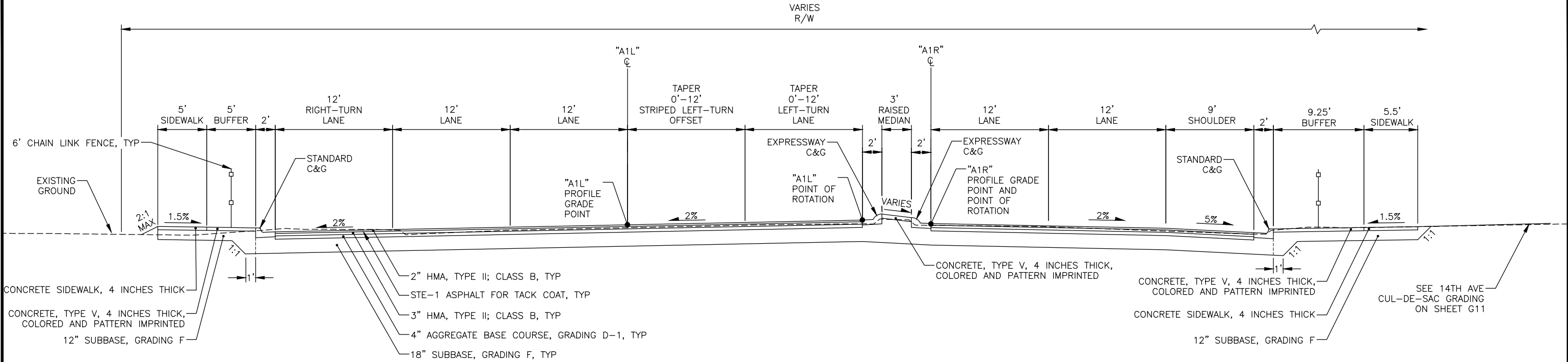
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PLANS-IN-HAND

5/29/2020

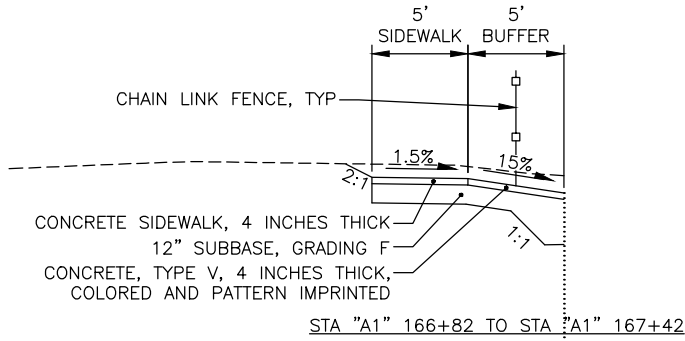
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(Sophia Huff) KE#- 00385

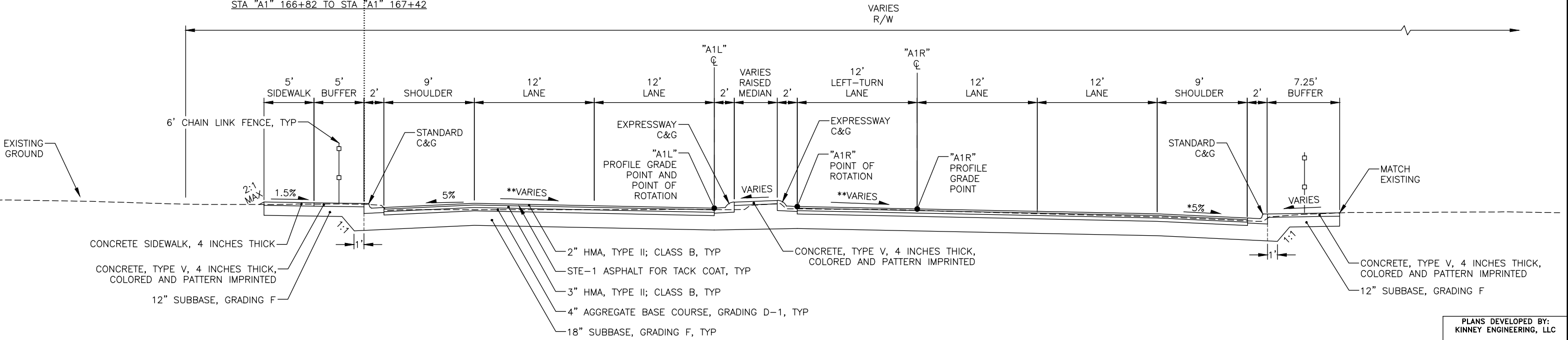
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	B2	B6



AIRPORT WAY
AIRPORT/CUSHMAN INTERSECTION TO STA "A1" 165+69



STA "A1" 166+82 TO STA "A1" 167+42



AIRPORT WAY
STA "A1" 165+69 TO *AIRPORT/NOBLE INTERSECTION - (EOP)

TYPICAL SECTIONS

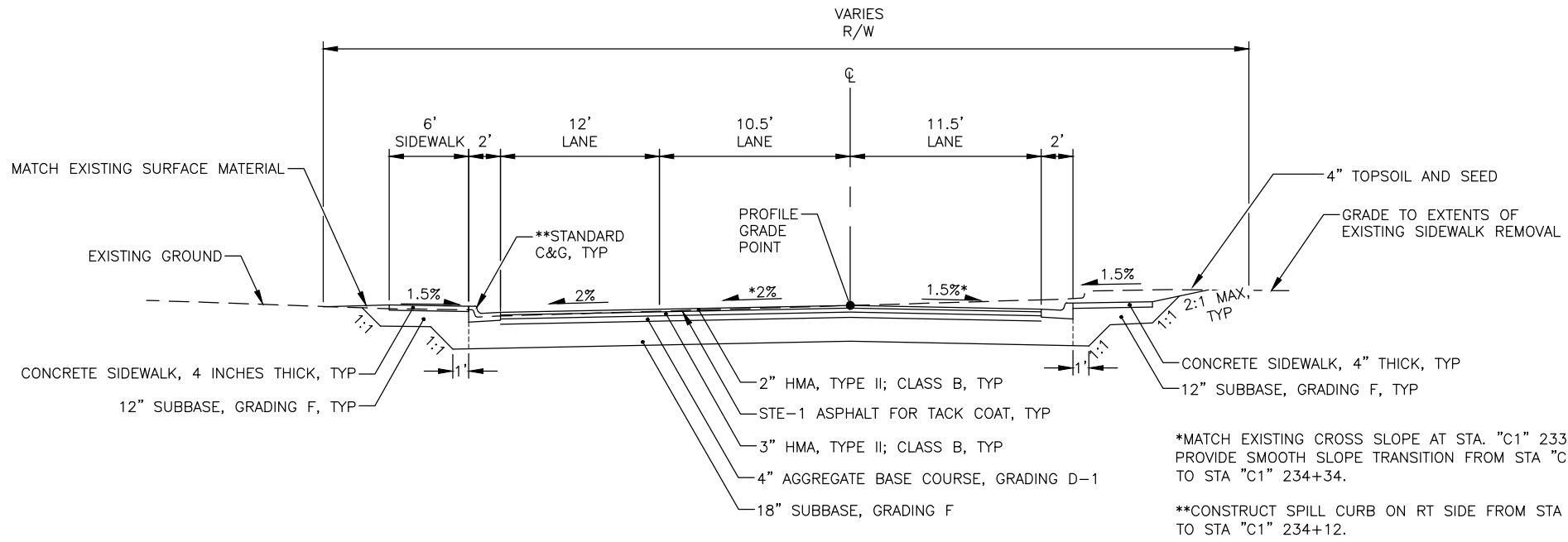
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5/29/2020
PLANS-IN-HAND

5/29/2020

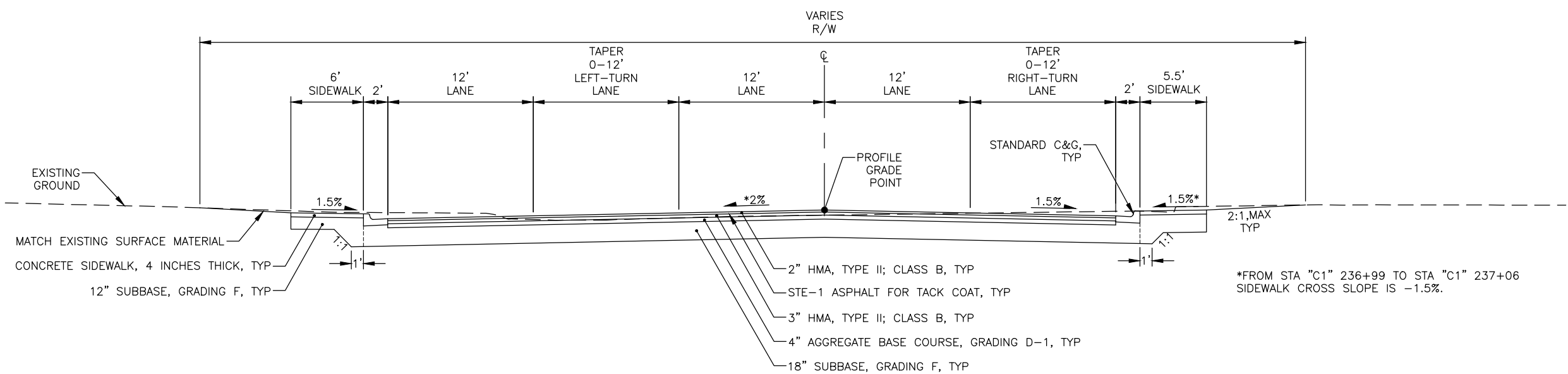
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(Sophia Hurf) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	B3	B6



SOUTH CUSHMAN STREET
STA. "C1" 233+82 TO STA "C1" 235+20



SOUTH CUSHMAN STREET
STA "C1" 235+20 TO STA "C1" 237+06

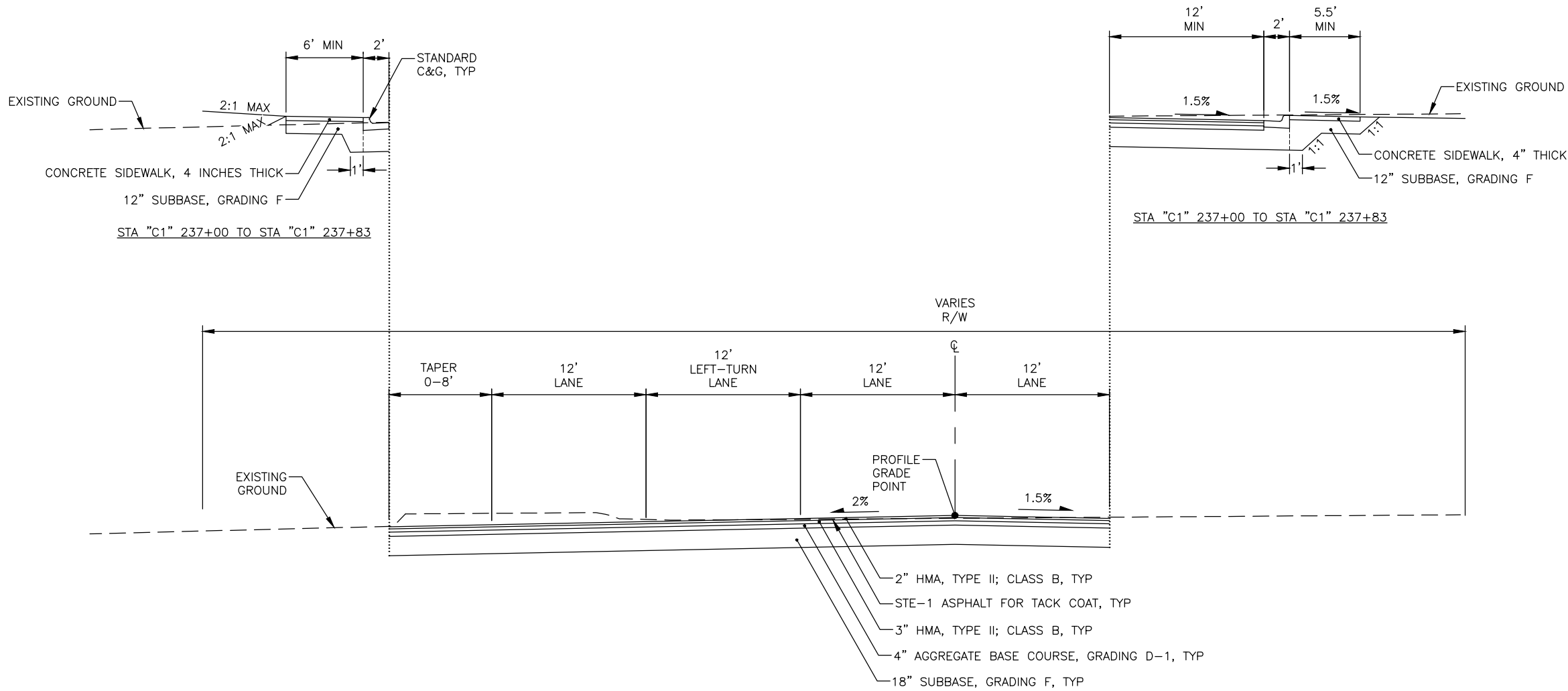
TYPICAL SECTIONS

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5/29/2020
PLANS-IN-HAND
5/29/2020

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(Sophia Huff) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	B4	B6



SOUTH CUSHMAN STREET
STA "C1" 237+00 TO STA "C1" 237+83

TYPICAL SECTIONS

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KINNEY ENGINEERING, LLC

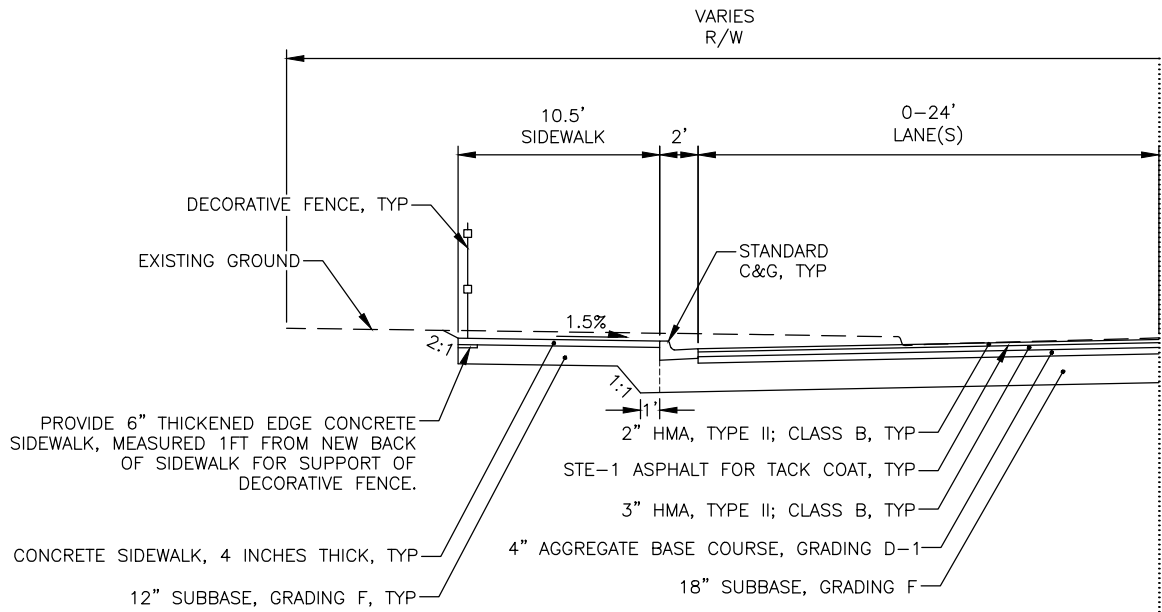
5/29/2020
PLANS-IN-HAND

5/29/2020

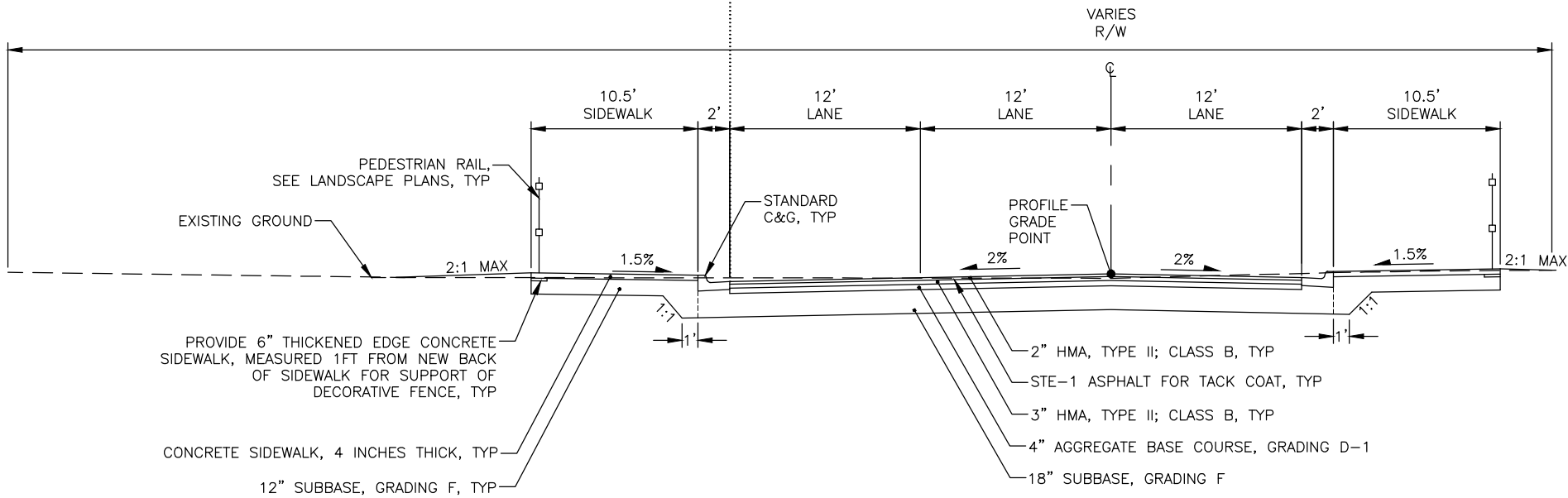
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(Sophia Huff) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	B5	B6



CUSHMAN STREET
STA "C1" 240+54 TO STA "C1" 241+68



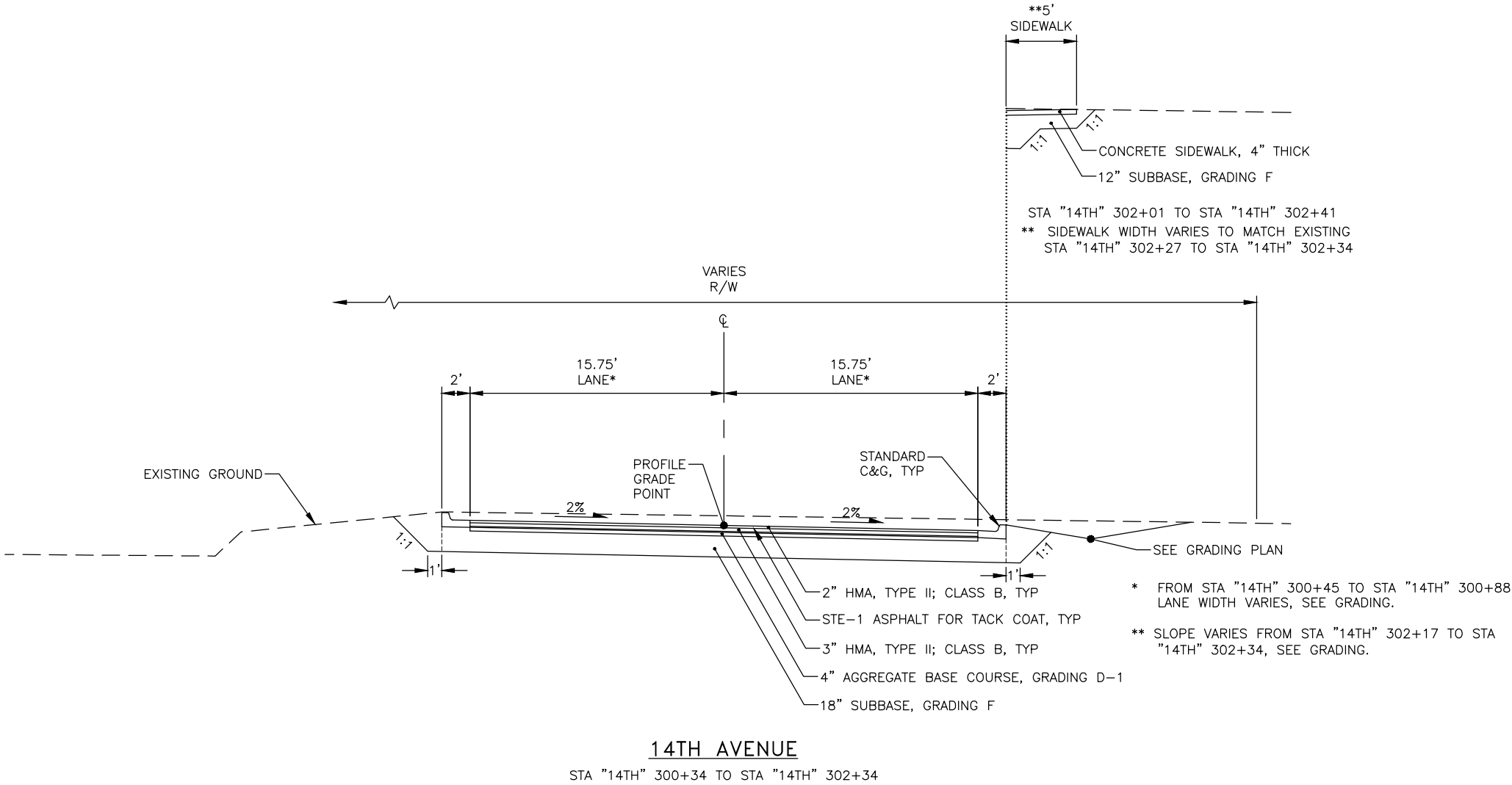
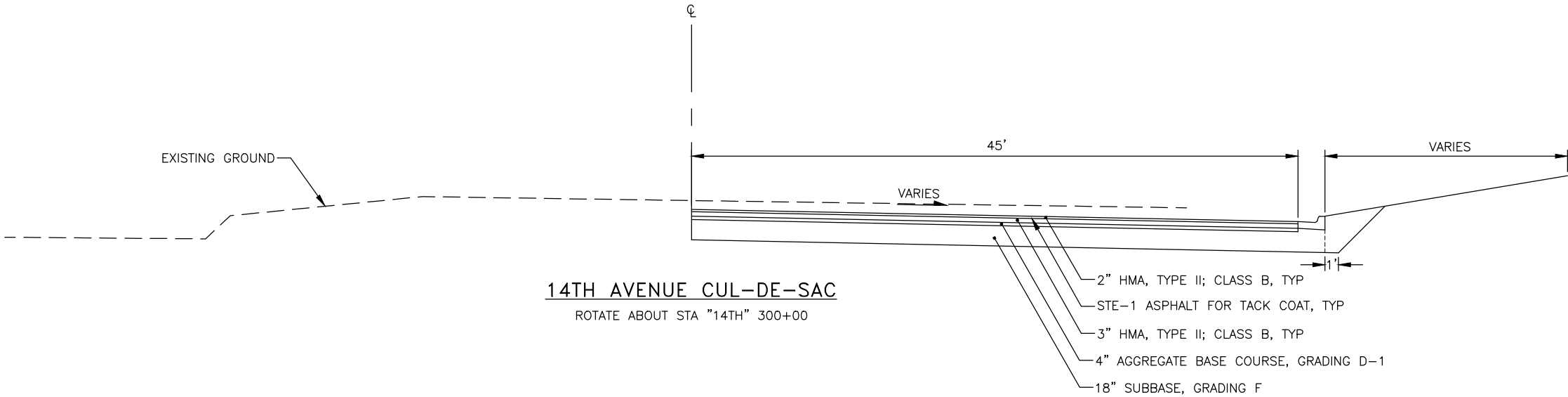
CUSHMAN STREET
STA "C1" 240+54 TO STA "C1" EOP

TYPICAL SECTIONS

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
PLANS-IN-HAND
5/29/2020

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Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\C\Sheets\64078_B1-B4_TYP SECT-B6 Fri, May/29/20 02:17pm (Sophia Hurf) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	B6	B6



TYPICAL SECTIONS

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND

5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\C\Sheets\64078_C1_E00-C1_Fri, May/29/20 04:39pm (Peter Mamrol) KE#: 00385

ESTIMATE OF QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	TOTAL
201.0009.0000	CLEARING AND GRUBBING	LUMP SUM	ALL REQ'D
202.0001.0000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQ'D
202.0002.0000	REMOVAL OF PAVEMENT	SQUARE YARD	23,960
202.0003.0000	REMOVAL OF SIDEWALK	SQUARE YARD	2,199
202.0004.0000	REMOVAL OF CULVERT PIPE	LINEAR FOOT	2,326
202.0006.0000	REMOVAL OF MANHOLE	EACH	8
202.0008.0000	REMOVAL OF INLET	EACH	18
202.0009.0000	REMOVAL OF CURB AND GUTTER	LINEAR FOOT	7,727
202.2012.0000	GROUND WATER WELL DECOMMISSIONING	EACH	2
203.0003.0000	UNCLASSIFIED EXCAVATION	CUBIC YARD	19,628
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	5,876
304.0001.000F	SUBBASE, GRADING F	TON	32,051
401.0001.002B	HMA, TYPE II; CLASS B	TON	6,554
401.0004.5240	ASPHALT BINDER, GRADE PG 52-40	TON	360
401.0008.002A	HMA PRICE ADJUSTMENT, TYPE II; CLASS A	CONTINGENT SUM	ALL REQ'D
401.0015.0000	ASPHALT MATERIAL PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQ'D
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	TON	9
507.0002.0000	PEDESTRIAN RAILING	LINEAR FOOT	530
603.0021.0008	CORRUGATED POLYETHYLENE PIPE 8 INCH	LINEAR FOOT	16
603.0021.0012	CORRUGATED POLYETHYLENE PIPE 12 INCH	LINEAR FOOT	1,663
603.0021.0015	CORRUGATED POLYETHYLENE PIPE 15 INCH	LINEAR FOOT	130
603.0021.0018	CORRUGATED POLYETHYLENE PIPE 18 INCH	LINEAR FOOT	1,204
603.0021.0024	CORRUGATED POLYETHYLENE PIPE 24 INCH	LINEAR FOOT	230
604.0001.0001	STORM SEWER MANHOLE, TYPE I	EACH	9
604.0001.0002	STORM SEWER MANHOLE, TYPE II	EACH	1
604.0003.0000	RECONSTRUCT EXISTING MANHOLE	EACH	3
604.0004.0000	ADJUST EXISTING MANHOLE	EACH	8
604.0005.000A	INLET, TYPE A	EACH	28
604.0010.0000	RECONSTRUCT INLET	EACH	1
607.0003.0000	CHAIN LINK FENCE	LINEAR FOOT	2,568
608.0001.0004	CONCRETE SIDEWALK, 4 INCHES THICK	SQUARE YARD	2,333
608.0001.0006	CONCRETE SIDEWALK, 6 INCHES THICK	SQUARE YARD	121
608.0006.0000	CURB RAMP	EACH	23
608.2013.E004	CONCRETE, TYPE V, 4 INCHES THICK, COLORED AND PATTERN IMPRINTED	SQUARE YARD	3,456
609.0002.0001	CURB AND GUTTER, TYPE 1	LINEAR FOOT	8,410
615.0001.0000	STANDARD SIGN	SQUARE FOOT	484
615.0006.0000	SALVAGE SIGN	EACH	65
618.0004.0000	SEEDING	SQUARE YARD	1,395
620.0001.0000	TOPSOIL	SQUARE YARD	1,395
621.0001.0000	TREE, BIRCH-CLUMP (BETULA PAPYRIFERA)	EACH	20
621.0001.000A	TREE, BIRCH-SINGLE STEM (BETULA PAPYRIFERA)	EACH	87
621.0001.000B	TREE, LARCH (LARIX LARCINIA)	EACH	11
621.0001.000C	TREE, WHITE SPRUCE (PICEA GLAUCA)	EACH	23

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	C1	C2

ESTIMATING FACTORS		
ITEM NO.	DESCRIPTION	UNIT
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	148 LBS. / CUBIC FOOT
304.0001.000F	SUBBASE, GRADING F	148 LBS. / CUBIC FOOT
401.0001.002B	HMA, TYPE II; CLASS B	151 LBS / CUBIC FOOT
401.0004.5240	ASPHALT BINDER, GRADE PG 52-40	5.5% WEIGHT OF 401.0001.002B
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	0.000334 TONS / S.Y.

ESTIMATE OF QUANTITIES

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND

5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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(Peter Mamrol) KEN# 00385

ESTIMATE OF QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	TOTAL
621.0002.000A	SHRUB, COTONEASTER (COTONEASTER LUCIDUS), 36" HEIGHT	EACH	68
621.0002.000B	SHRUB, LILAC (SYRINGA VULGARIS), 34" HEIGHT	EACH	54
621.0002.000C	SHRUB, ROSE (ROSA ACICULARIS), 34" HEIGHT	EACH	6
621.0002.000D	SHRUB, SPIREA ALASKA (SPIREA BEAUVERDIANA), 18" HEIGHT	EACH	97
621.2007.0000	LANDSCAPE EDGING	LINEAR FOOT	185
621.2008.0001	LANDSCAPE BOULDER – SMALL	EACH	8
621.2008.0002	LANDSCAPE BOULDER – MEDIUM	EACH	6
622.2018.0000	PLANTER, CONCRETE	EACH	14
622.2019.0000	BENCH	EACH	13
622.2032.0000	WAYFINDING SIGN	EACH	2
622.XXXX.0001	STREET TREE PLANTING	EACH	12
622.XXXX.0002	GATEWAY SIGN	EACH	1
627.0010.0000	ADJUSTMENT OF VALVE BOX	EACH	4
639.0001.0000	DRIVEWAY	EACH	4
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQ'D
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQ'D
641.0003.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	ALL REQ'D
641.0004.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL ADDITIVES	CONTINGENT SUM	ALL REQ'D
641.0006.0000	WITHHOLDING	CONTINGENT SUM	ALL REQ'D
641.0007.0000	SWPPP MANAGER	LUMP SUM	ALL REQ'D
642.0001.0000	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQ'D
642.0003.0000	THREE PERSON SURVEY PARTY	HOUR	40
642.0004.0000	SET PRIMARY MONUMENT	EACH	3
642.0005.0000	SET SECONDARY MONUMENT	EACH	3
643.0002.0000	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQ'D
643.0003.0000	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQ'D
643.0023.0000	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQ'D
643.0025.0000	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQ'D
643.2005.0000	PUBLIC INFORMATION PROGRAM	LUMP SUM	ALL REQ'D
643.2020.0000	FLAGGING	LUMP SUM	ALL REQ'D
644.0001.0000	FIELD OFFICE	LUMP SUM	ALL REQ'D
660.0001.0000	TRAFFIC SIGNAL SYSTEM COMPLETE, AIRPORT / CUSHMAN	LUMP SUM	ALL REQ'D
660.0003.0000	HIGHWAY LIGHTING SYSTEM COMPLETE	LUMP SUM	ALL REQ'D
660.2003.0000	TRAFFIC SIGNAL SYSTEM MODIFICATIONS, CUSHMAN / BARNETTE	LUMP SUM	ALL REQ'D
661.0001.0000	LOAD CENTER, TYPE 1	EACH	1
661.0006.0000	TRANSFORMER, 5KVA	EACH	1
662.2005.0000	FIBER OPTIC INTERCONNECT	LUMP SUM	ALL REQ'D
670.0001.0000	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQ'D
670.0010.0000	METHYL METHACRYLATE PAVEMENT MARKINGS	LUMP SUM	ALL REQ'D
670.0011.0000	METHYL METHACRYLATE TRANSVERSE PAVEMENT MARKING LINES	SQUARE FOOT	3,575
670.0012.0000	METHYL METHACRYLATE TRANSVERSE PAVEMENT MARKINGS, WORDS AND SYMBOLS	EACH	29
670.0012.0000	METHYL METHACRYLATE TRANSVERSE PAVEMENT MARKINGS, WORDS AND SYMBOLS	EACH	29

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	C2	C2

NOTE TO REVIEWER:

1. COSTS ASSOCIATED WITH DIVISION 800 PAY ITEMS FOR ENVIRONMENTAL MONITORING AND REMEDIATION ARE ADDRESSED SEPARATELY UNDER RIGHT-OF-WAY ACQUISITION IN THE DESIGN STUDY REPORT (DSR).
2. COSTS ASSOCIATED WITH THE FOLLOWING PAY ITEMS ARE ADDRESSED SEPARATELY IN THE UTILITY CONFLICT MATRIX IN THE DSR:

627.0001.0006	DUCTILE IRON WATER CONDUIT, 6 INCH
627.0003.0000	INSTALL VALVE BOX
627.0005.0000	FIRE HYDRANT INSTALLATION
627.0007.0000	FIRE HYDRANT REMOVAL
627.0009.0006	GATE VALVE, 6 INCH
680.0002.0000	TELECOMMUNICATIONS UTILITY RELOCATION
687.0002.0000	POWER UTILITY RELOCATION

ESTIMATE OF QUANTITIES

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND

5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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(Peter Mamrol) KE#: 00385

202.0001.0000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS					
SHEET	BEGIN		END		REMARKS
	STATION	OFFSET	STATION	OFFSET	
E1	'A1'154+00	46' LT	'A1'160+64	47' LT	REMOVE CHAIN LINK FENCE
E1	'A1'154+00	50' RT	'A1'160+16	50' RT	REMOVE CHAIN LINK FENCE
E1	'A1'158+72	61' LT			REMOVE PRIVATE LIGHTING
E1	'A1'159+62	60' LT			REMOVE PRIVATE LIGHTING
E1	'A1'160+51	78' LT			REMOVE PRIVATE LIGHTING
E1-E2	'A1'161+89	47' LT	'A1'168+58	46' LT	REMOVE CHAIN LINK FENCE
E1-E2	'A1'162+40	50' RT	'A1'168+71	50' RT	REMOVE CHAIN LINK FENCE
E2	'A1'165+46	57' LT			REMOVE POST
E2	'A1'165+94	56' LT			REMOVE POST
E2	'A1'166+48	57' LT			REMOVE POST
E2	'A1'166+57	61' LT			RELOCATE PROPANE TANK
E2	'A1'166+60	63' LT			REMOVE CONCRETE WALL
E3	'C1'239+50	CL	'C1'243+00	CL	REMOVE SUBGRADE CONCRETE SLABS
E3	'C1'239+57	47' RT			REMOVE CONCRETE WALL
E3	'C1'239+63	56' RT			REMOVE POST
E3	'C1'240+04	44' LT			REMOVE SIGN
E3	'C1'242+00	37' LT	'C1'242+43	39' LT	REMOVE BACKING CURB
E3	'C1'242+17	38' RT			REMOVE BOLLARD
E3	'C1'242+22	56' RT			REMOVE BOLLARD
E3	'C1'242+22	50' RT			REMOVE BOLLARD

202.0003.0000 REMOVAL OF SIDEWALK						
SHEET	BEGIN		END		AREA (SY)	REMARKS
	STATION	OFFSET	STATION	OFFSET		
E1	'A1'154+00	LT	'A1'160+87	LT	374	
E1	'A1'159+09	RT	'A1'161+42	RT	133	
E1	'A1'161+73	LT	'A1'164+00	LT	153	
E1	'A1'162+17	RT	'A1'164+00	RT	130	
E2	'A1'164+00	LT	'A1'168+94	LT	251	
E3	'A1'168+73	RT	'A1'168+79	RT	7	
E2	'C1'233+50	LT	'C1'236+50	LT	198	
E2	'C1'233+83	RT	'C1'236+50	RT	169	
E3	'C1'236+50	LT	'C1'238+25	LT	102	
E3	'C1'236+50	RT	'C1'236+81	RT	18	
E3	'C1'237+18	RT	'C1'238+45	RT	65	
E3	'C1'239+36	RT	'C1'242+30	RT	199	
E3	'C1'239+67	LT	'C1'242+69	LT	246	
E4	'14TH'301+66	LT	'14TH'301+95	LT	21	
E4	'14TH'301+88	RT	'14TH'302+34	RT	22	
E5	'A1'165+32	LT	'A1'166+30	LT	111	
				TOTAL:	2199	

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	D1	D4

202.0002.0000 REMOVAL OF PAVEMENT				
SHEET	START STATION	END STATION	AREA (SY)	REMARKS
E1	'A1'154+00	'A1'164+00	8520	AIRPORT WAY, THROUGH INTERSECTION
E2	'A1'164+00	'A1'169+60	5430	AIRPORT WAY
E2	'C1'233+83	'C1'236+50	1020	S CUSHMAN STREET
E3	'C1'236+50	'C1'238+50	890	S CUSHMAN STREET SOUTH OF AIRPORT WAY
E3	'C1'239+39	'C1'243+25	2530	CUSHMAN STREET NORTH OF AIRPORT WAY
E4	'14TH'300+00	'14TH'302+41	1290	14TH AVENUE
E5	'A1'164+74	'A1'166+31	1150	PARKING LOT ON GAFFNEY
E1-E2			1460	ADDITIONAL ASPHALT REMOVAL BEYOND SIDEWALK, NORTH SIDE OF AIRPORT WAY
E1-E2			1300	ADDITIONAL ASPHALT REMOVAL BEYOND SIDEWLAK, SOUTH OF AIRPORT WAY
E3			370	ADDITIONAL ASPHALT REMOVAL FOR S CUSHMAN STREET WIDENING
		TOTAL:	23960	

202.0004.0000 REMOVAL OF CULVERT PIPE						
SHEET	BEGIN		END		LENGTH (LF)	REMARKS
	STATION	OFFSET	STATION	OFFSET		
E1	'A1'154+50	44' LT	'A1'154+50	38' LT	6	
E1	'A1'154+50	38' RT	'A1'154+57	8' RT	47	
E1	'A1'156+00	44' RT	'A1'156+53	38' RT	53	
E1	'A1'156+53	38' RT	'A1'156+53	52' RT	15	
E1	'A1'156+53	38' RT	'A1'158+75	38' RT	223	
E1	'A1'158+00	44' LT	'A1'158+40	60' LT	44	
E1	'A1'158+00	44' LT	'A1'158+75	38' RT	111	
E1	'A1'158+75	38' RT	'A1'158+75	44' RT	6	
E1	'A1'158+75	38' RT	'A1'160+88	37' RT	212	
E1	'A1'160+88	7' RT	'A1'161+64	39' RT	76	
E1	'A1'160+88	37' RT	'A1'161+05	72' LT	111	
E1	'A1'160+94	68' LT	'A1'161+05	72' LT	13	
E1	'A1'161+05	72' LT	'A1'161+45	94' LT	46	
E1	'A1'161+64	39' RT	'A1'164+30	38' RT	264	
E2	'A1'164+30	38' RT	'A1'164+30	44' RT	6	
E2	'A1'164+30	38' RT	'A1'164+30	44' LT	83	
E2	'A1'164+30	44' LT	'A1'164+30	60' LT	16	
E2	'A1'164+30	44' RT	'A1'164+69	63' RT	44	
E2	'A1'164+30	38' RT	'A1'167+36	38' RT	307	
E2	'A1'166+81	79' LT	'A1'167+00	44' LT	40	
E2	'A1'167+00	44' LT	'A1'167+36	38' RT	90	
E2	'A1'167+36	38' RT	'A1'167+36	44' RT	7	
E2	'A1'167+36	44' RT	'A1'167+36	52' RT	9	
E2	'A1'167+36	38' RT	'A1'169+69	38' RT	230	
E2	'C1'235+72	17' RT	'C1'235+94	19' LT	42	
E2	'C1'235+82	20' LT	'C1'235+94	19' LT	12	
E2	'C1'235+94	19' LT	'C1'236+06	17' LT	12	
E3	'C1'242+34	50' RT	'C1'242+55	44' RT	23	
E3	'C1'242+55	44' RT	'C1'242+67	48' LT	92	
E3	'C1'242+67	48' LT	'C1'243+12	45' LT	46	
E4	'14TH'301+84	12' LT	'14TH'301+96	26' RT	40	
				TOTAL:	2326	

SUMMARY TABLES

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND

5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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(Peter Mamrol) K&E#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	D2	D4

202.0006.0000 REMOVAL OF MANHOLE			
SHEET	STATION	OFFSET	REMARKS
E1	'A1'156+53	38' RT	
E1	'A1'158+40	60' LT	
E1	'A1'158+75	38' RT	
E1	'A1'160+88	37' RT	
E1	'A1'161+05	72' LT	
E1	'A1'161+64	39' RT	
E2	'A1'164+30	38' RT	
E2	'A1'167+36	38' RT	

202.0009.0000 REMOVAL OF CURB AND GUTTER						
SHEET	BEGIN		END		LENGTH (LF)	REMARKS
	STATION	OFFSET	STATION	OFFSET		
E1	'A1'154+00	LT	'A1'160+87	LT	690	
E1	'A1'154+00	CL	'A1'160+89	CL	1383	
E1	'A1'154+00	RT	'A1'161+42	RT	746	
E1	'A1'158+93	RT	'A1'159+35	RT	264	
E1	'A1'161+73	LT	'A1'164+00	LT	281	
E1	'A1'162+17	RT	'A1'164+00	RT	234	
E1	'A1'162+24	CL	'A1'164+00	CL	455	
E2	'A1'164+00	LT	'A1'168+94	LT	461	
E2	'A1'164+00	CL	'A1'168+72	CL	849	
E2	'A1'164+00	RT	'A1'168+73	RT	433	
E2	'A1'168+79	RT	'A1'169+81	RT	110	
E2	'C1'233+83	LT	'C1'236+50	LT	267	
E2	'C1'233+83	RT	'C1'236+50	RT	269	
E3	'C1'236+50	LT	'C1'238+25	LT	198	
E3	'C1'236+50	RT	'C1'236+81	RT	36	
E3	'C1'237+18	RT	'C1'238+45	RT	118	
E3	'C1'239+36	RT	'C1'242+30	RT	332	
E3	'C1'239+67	LT	'C1'242+69	LT	333	
E4	'14TH'301+45	RT	'14TH'301+62	RT	28	
E4	'14TH'301+76	LT	'14TH'301+87	LT	23	
E4	'14TH'301+78	LT	'14TH'302+37	LT	68	
E4	'14TH'301+88	RT	'14TH'302+34	RT	46	
E5	'A1'165+32	LT	'A1'166+30	LT	103	
				TOTAL:	7727	

202.0008.0000 REMOVAL OF INLET			
SHEET	STATION	OFFSET	REMARKS
E1	'A1'154+50	44' LT	
E1	'A1'154+57	8' RT	
E1	'A1'156+00	44' RT	
E1	'A1'158+00	44' LT	
E1	'A1'158+75	44' RT	
E1	'A1'160+94	68' LT	
E1	'A1'161+45	94' LT	
E2	'A1'164+30	44' RT	
E2	'A1'164+30	44' LT	
E2	'A1'164+30	60' LT	
E2	'A1'167+00	44' LT	
E2	'A1'167+36	44' RT	
E2	'C1'235+72	17' RT	
E2	'C1'235+94	19' LT	
E3	'C1'242+34	50' RT	
E3	'C1'242+67	48' LT	
E4	'14TH'301+84	12' LT	
E4	'14TH'301+96	26' RT	

202.2012.0000 GROUNDWATER WELL DECOMMISSIONING			
SHEET	STATION	OFFSET	REMARKS
E1	'A1'161+18	51' RT	
E1	'A1'163+19	65' RT	

SUMMARY TABLES

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
PLANS-IN-HAND
5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\C\Sheets\64078_D1-D4_SUMMARIES-D3_Fri_May/29/20 01:10pm

(Peter Mamrol) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	D3	D4

607.0003.0000 CHAIN LINK FENCE						
SHEET	BEGIN		END		LENGTH (LF)	REMARKS
	STATION	OFFSET	STATION	OFFSET		
F1-F2	154+00.0	46.5' LT	160+31.1	66.7' LT	632	
F1-F2	154+00.0	50.0' RT	160+67.5	79.4' RT	672	
F2-F3	161+95.8	83.9' LT	168+53.0	48.0' LT	663	
F2-F3	162+61.7	49.3' RT	168+63.6	49.3' RT	601	
				TOTAL:	2568	

608.0001.0004 CONCRETE SIDEWALK, 4 INCHES THICK						
SHEET	BEGIN		END		AREA (SY)	REMARKS
	STATION	OFFSET	STATION	OFFSET		
F1	'A1'154+00	LT	'A1'159+00	LT	277	
F1	'A1'158+76	RT	'A1'159+00	RT	5	
F2	'A1'159+00	LT	'A1'160+47	LT	94	
F2	'A1'159+00	RT	'A1'160+91	RT	241	
F2	'A1'159+99	RT	'A1'162+27	LT	153	PEDESTRIAN REFUGE ISLANDS
F2	'A1'161+71	LT	'A1'164+00	LT	141	
F2	'A1'162+25	RT	'A1'164+00	RT	150	
F3	'A1'164+00	LT	'A1'168+94	LT	288	
F3	'A1'168+68	RT	'A1'168+83	RT	12	
F4	'C1'233+50	LT	'C1'233+76	LT	17	
F4	'C1'233+83	RT	'C1'235+30	RT	91	
F4	'C1'234+14	LT	'C1'235+06	LT	61	
F4	'C1'235+44	LT	'C1'238+40	LT	64	
F4	'C1'235+67	RT	'C1'238+40	RT	45	
F5	'C1'239+72	RT	'C1'241+80	RT	250	
F5	'C1'240+01	LT	'C1'241+68	LT	203	
F6	'C1'241+80	RT	'C1'242+41	RT	89	
F6	'C1'242+06	LT	'C1'242+69	LT	77	
F7	'14TH'301+16	LT	'14TH'302+02	LT	53	
F7	'14TH'301+93	RT	'14TH'302+34	RT	22	
				TOTAL:	2333	

608.0001.0006 CONCRETE SIDEWALK, 6 INCHES THICK						
SHEET	BEGIN		END		AREA (SY)	REMARKS
	STATION	OFFSET	STATION	OFFSET		
F4	'C1'233+76	LT	'C1'234+14	LT	26	DRIVEWAY CURB CUT
F4	'C1'235+06	LT	'C1'235+44	LT	26	DRIVEWAY CURB CUT
F4	'C1'235+30	RT	'C1'235+67	RT	24	DRIVEWAY CURB CUT
F5	'C1'241+68	LT	'C1'241+80	LT	14	DRIVEWAY CURB CUT
F6	'C1'241+80	LT	'C1'242+06	LT	31	DRIVEWAY CURB CUT
				TOTAL:	121	

608.0006.0000 CURB RAMP			
SHEET	STATION	OFFSET	REMARKS
F2	'A1'159+15	67' RT	PERPENDICULAR
F2	'A1'160+46	82' LT	PERPENDICULAR
F2	'A1'160+70	72' LT	PERPENDICULAR
F2	'A1'160+74	51' LT	PERPENDICULAR
F2	'A1'160+77	39' RT	PERPENDICULAR
F2	'A1'160+88	64' LT	PERPENDICULAR
F2	'A1'160+90	82' RT	PERPENDICULAR
F2	'A1'160+98	63' RT	PERPENDICULAR
F2	'A1'161+11	49' RT	PERPENDICULAR
F2	'A1'161+48	66' LT	PERPENDICULAR
F2	'A1'161+66	70' LT	PERPENDICULAR
F2	'A1'161+72	89' LT	PERPENDICULAR
F2	'A1'161+80	51' LT	PERPENDICULAR
F2	'A1'161+84	50' RT	PERPENDICULAR
F2	'A1'161+96	38' RT	PERPENDICULAR
F2	'A1'162+02	63' RT	PERPENDICULAR
F2	'A1'162+27	74' RT	PERPENDICULAR
F3	'A1'168+75	46' RT	RETURNED CURB RAMP WITH (2) EA DETECTABLE WARNING TILE
F3	'A1'168+83	59' LT	PERPENDICULAR
F6	'C1'242+37	27' RT	PARALLEL
F6	'C1'242+58	35' LT	PARALLEL
F7	'14TH'301+94	19' LT	PARALLEL
F7	'14TH'301+96	21' RT	PARALLEL

SUMMARY TABLES

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND

5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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(Peter Mamrol) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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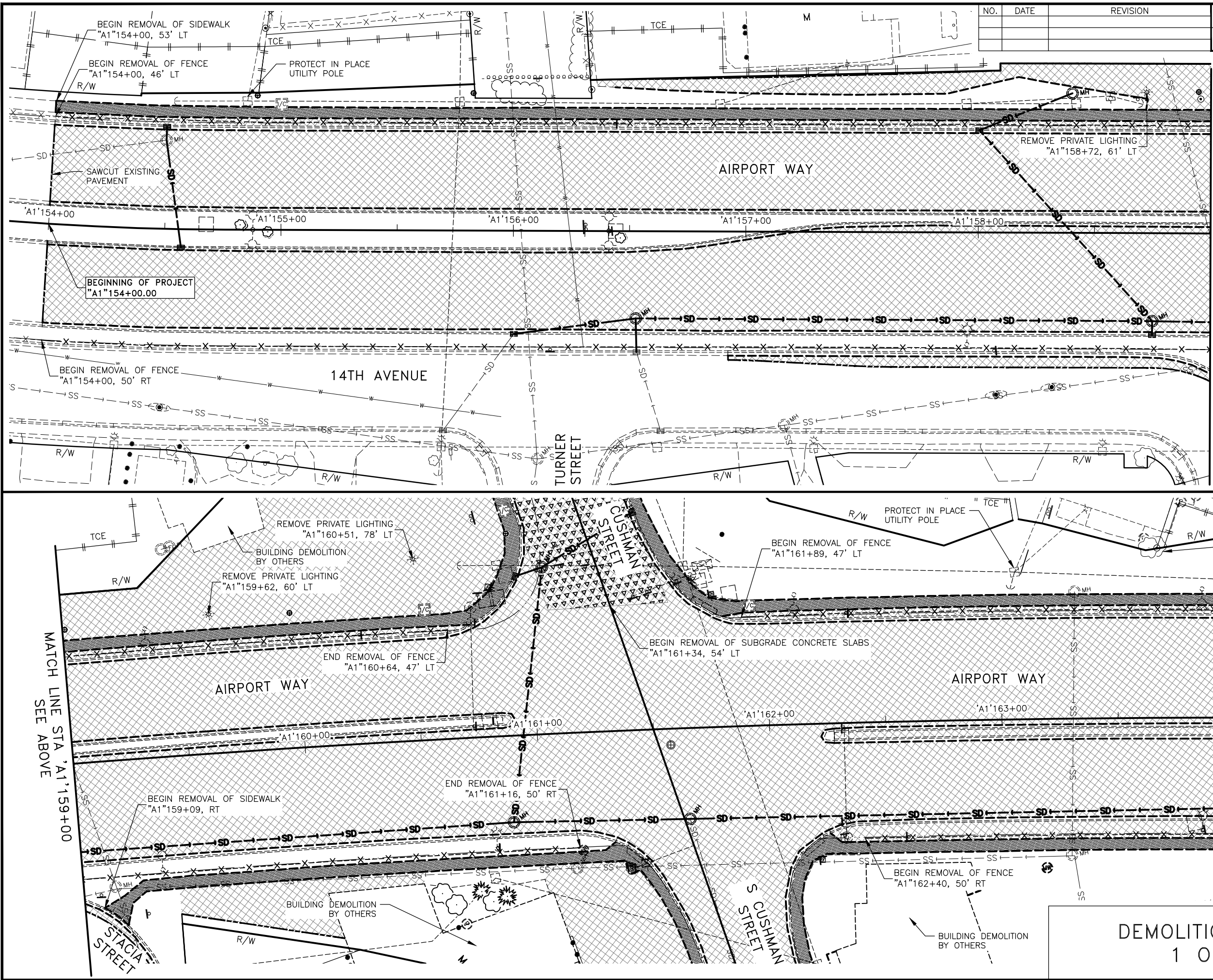
609.0002.0001 CURB AND GUTTER, TYPE 1						
SHEET	BEGIN		END		LENGTH (LF)	REMARKS
	STATION	OFFSET	STATION	OFFSET		
F1	'A1'154+00	LT	'A1'159+00	LT	498	
F1	'A1'154+00	CL	'A1'159+00	CL	1002	
F1	'A1'154+00	RT	'A1'159+00	RT	503	
F1	'A1'156+93	RT	'A1'159+00	RT	208	CURB ON AIRPORT FRONTAGE RD
F2	'A1'159+00	LT	'A1'160+47	LT	159	
F2	'A1'159+00	LT	'A1'160+66	LT	337	
F2	'A1'159+00	RT	'A1'160+91	RT	193	
F2	'A1'159+00	RT	'A1'159+37	RT	56	CURB ON AIRPORT FRONTAGE RD
F2	'A1'159+99	RT	'A1'162+27	LT	735	PEDESTRIAN REFUGE ISLANDS
F2	'A1'161+71	LT	'A1'164+00	LT	235	
F2	'A1'162+00	RT	'A1'164+00	RT	403	
F2	'A1'162+25	RT	'A1'164+00	RT	187	
F3	'A1'164+00	LT	'A1'168+94	LT	511	
F3	'A1'164+00	CL	'A1'168+73	CL	951	
F3	'A1'164+00	RT	'A1'168+83	RT	507	
F4	'C1'233+83	LT	'C1'238+40	LT	257	
F4	'C1'233+83	RT	'C1'238+40	RT	259	
F5	'C1'239+72	RT	'C1'241+80	RT	222	
F5	'C1'240+01	LT	'C1'241+80	LT	190	
F6	'C1'241+80	LT	'C1'242+69	LT	113	
F6	'C1'241+80	RT	'C1'242+41	RT	104	
F7	'14TH'300+00	CL	'14TH'302+48	CL	677	NEW CURBING FOR 14TH AVE CUL-DE-SAC
F8	'A1'165+32	LT	'A1'166+30	LT	103	NEW CURBING FOR GAFFNEY PARKING AREA
				TOTAL:	8410	

639.0001.0000 DRIVEWAY			
SHEET	STATION	OFFSET	REMARKS
F4	'C1'233+95	LT	
F4	'C1'235+25	LT	
F4	'C1'235+49	RT	
F6	"C1"241+87	LT	44 LF OF SPECIAL BACKING CURB IS SUBSIDIARY

SUMMARY TABLES

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
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5/29/2020

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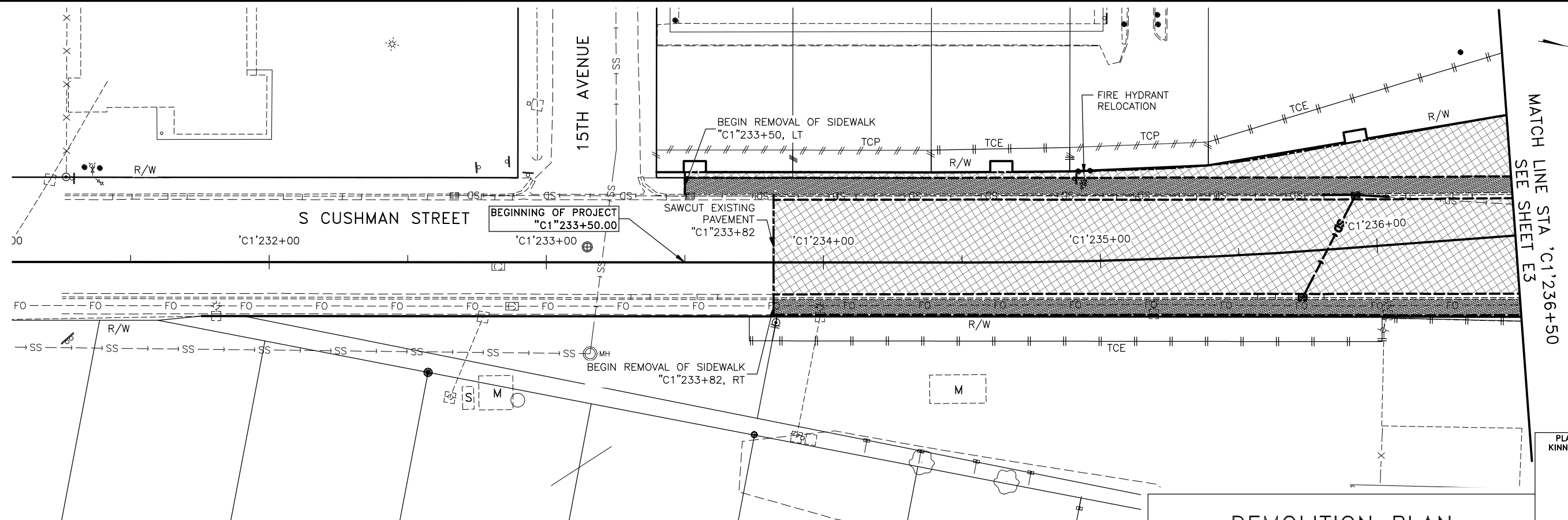
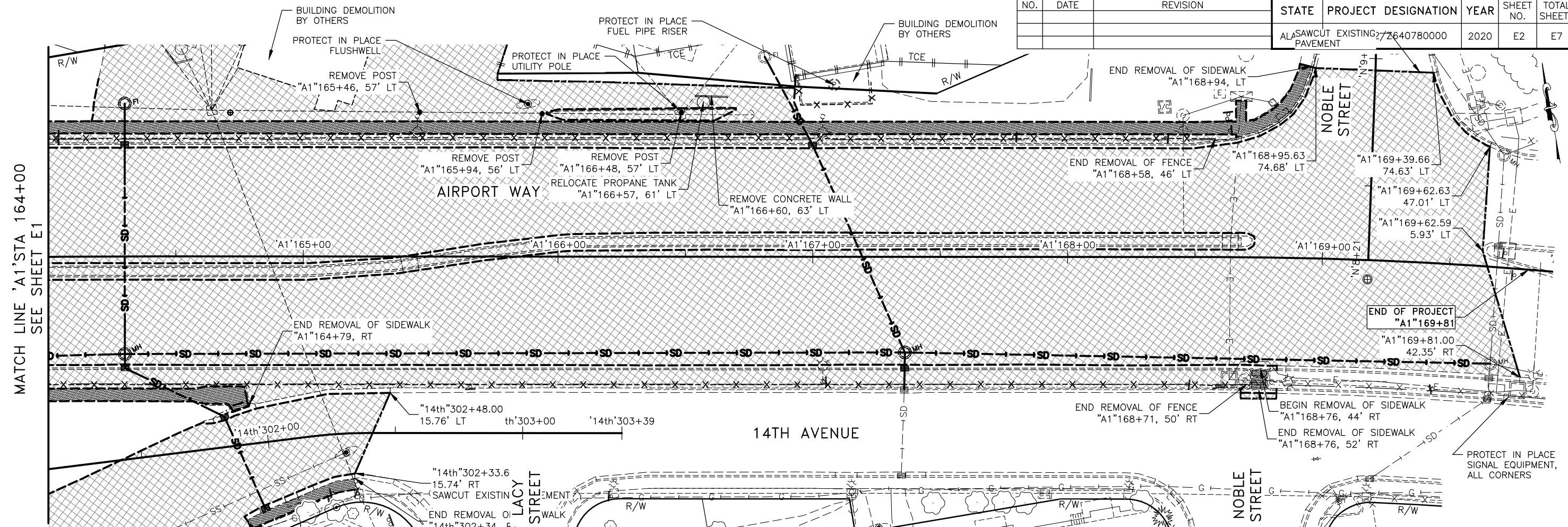
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	E1	E7

- DEMOLITION LEGEND
- REMOVAL OF PAVEMENT
 - REMOVAL OF SIDEWALK
 - REMOVAL OF SUBGRADE CONCRETE SLABS
 - CLEARING AND GRUBBING
 - SAWCUT, SEE NOTE 5
 - REMOVAL OF CURB AND GUTTER
 - REMOVE TREE
 - REMOVAL OF SD PIPE
 - ABANDON SD PIPE
 - REMOVAL OF INLET
 - RESET MAILBOX
 - REMOVE RETAINING WALL
 - SALVAGE SIGN
 - REMOVAL OF FENCE
 - REMOVAL OF JUNCTION BOX
 - REMOVE STRUCTURE

DEMOLITION PLAN
1 OF 5

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
PLANS-IN-HAND
5/29/2020

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			AL	SAWCUT EXISTING 27640780000 PAVEMENT	2020	E2	E7



DEMOLITION PLAN
2 OF 5

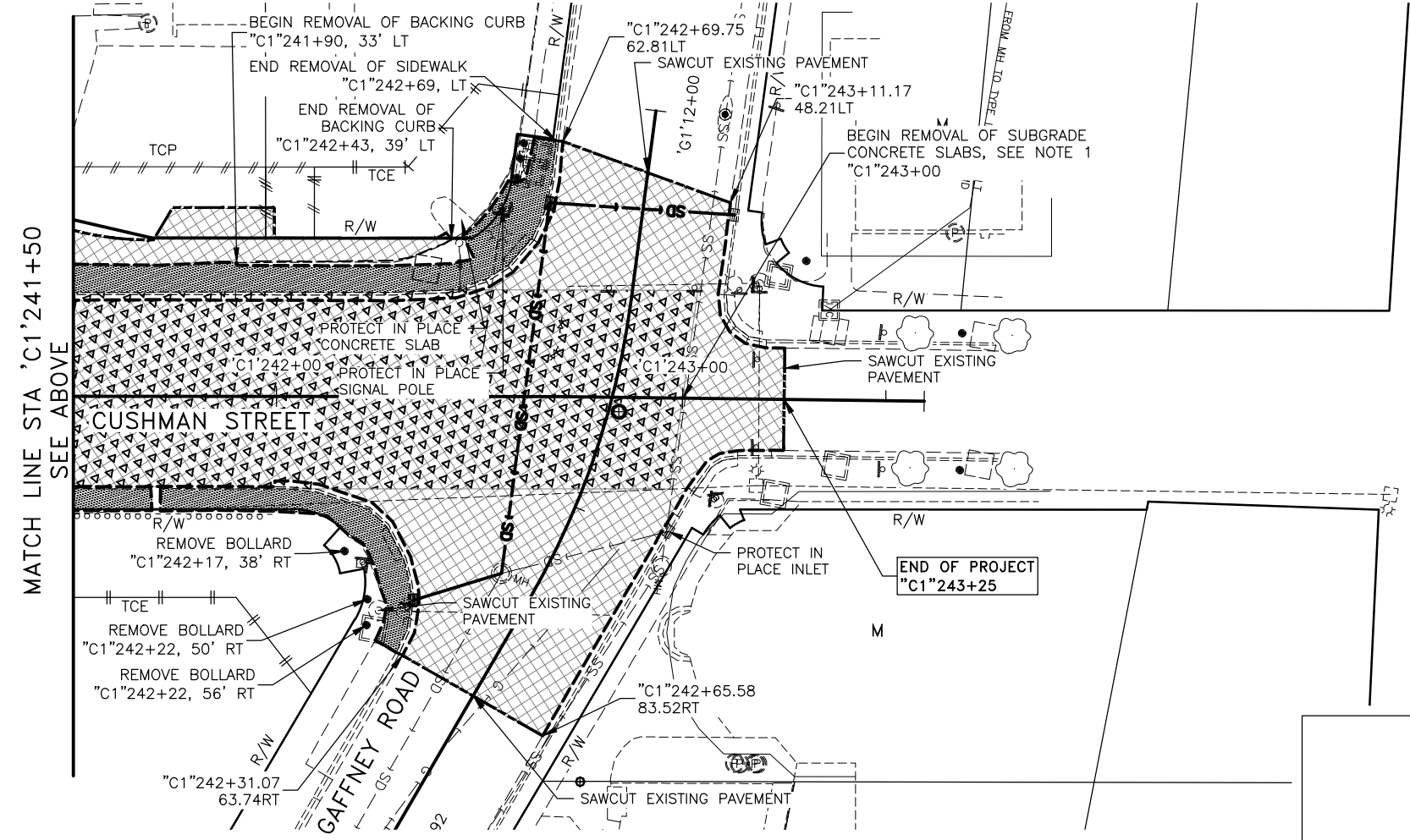
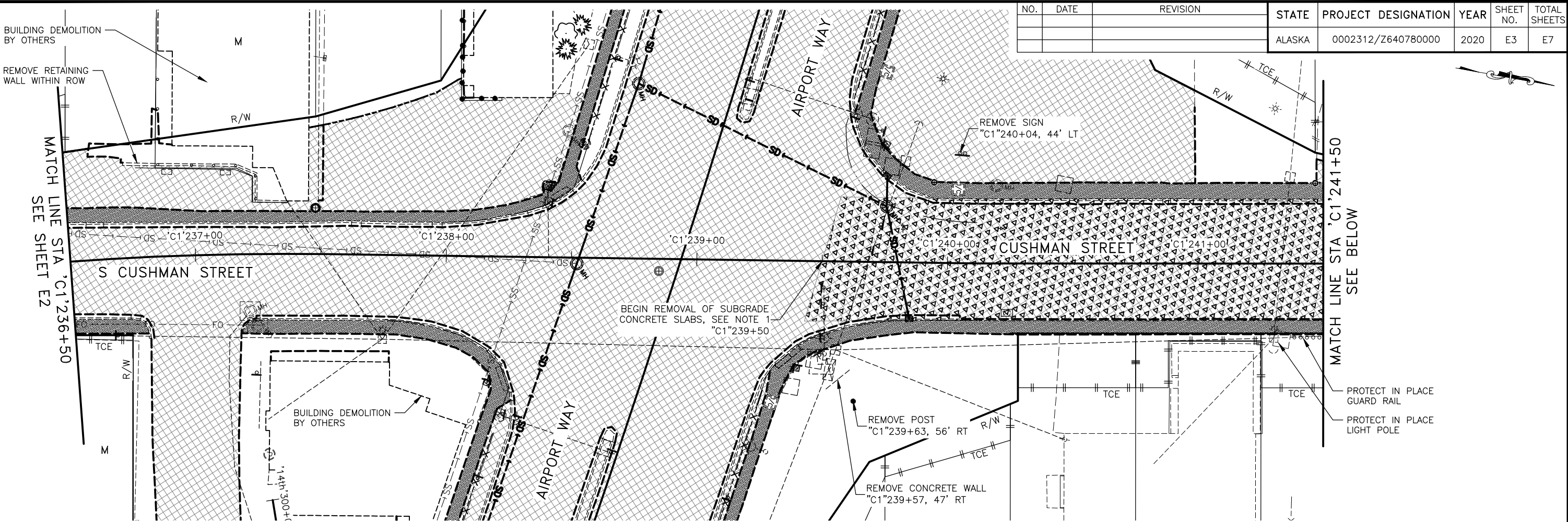
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(Peter Mamrol) KE#: 00385



- NOTES:**
1. EXISTING 7" TO 9" THICK CONCRETE SLABS (INCLUDES UP TO 18" THICKENED EDGES AND REBAR ON 24" GRID) UNDERLIE ROADWAY AND CURB AND GUTTER ARE EXPECTED APPROXIMATELY BETWEEN STA. 239+50 AND 243+00, AND ARE TO BE REMOVED. THIS WORK IS PAID FOR UNDER 202.0001.0000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS.

DEMOLITION PLAN
3 OF 5

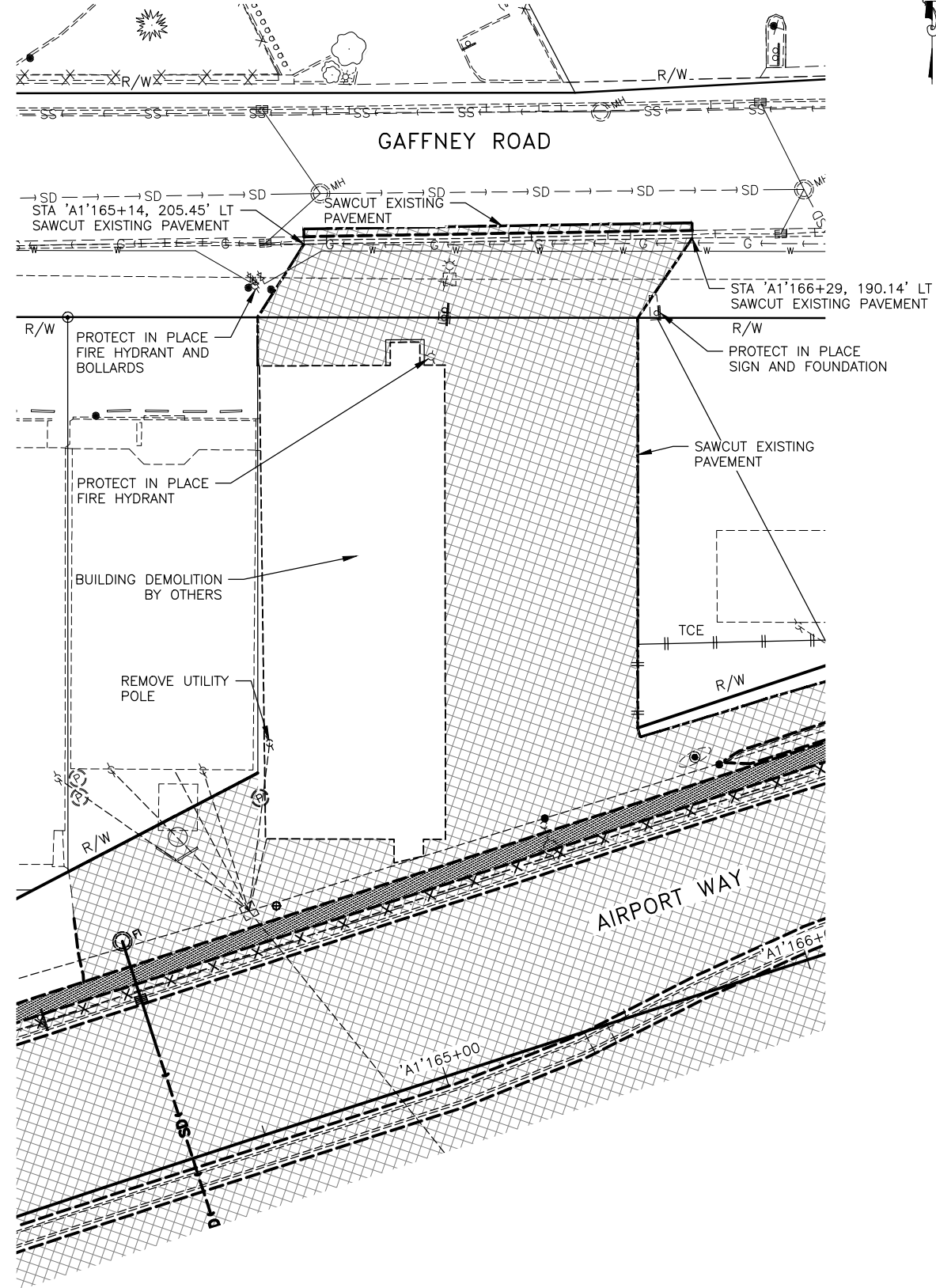
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(Peter Mamrol) KE#: 00385



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	E5	E7

DEMOLITION PLAN
5 OF 5

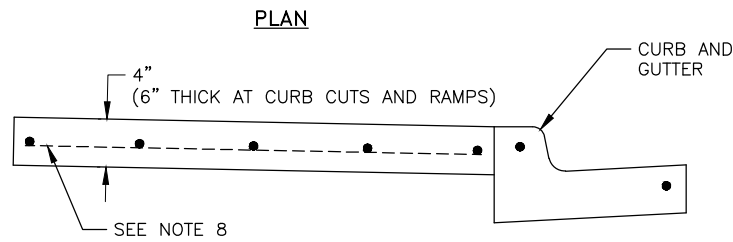
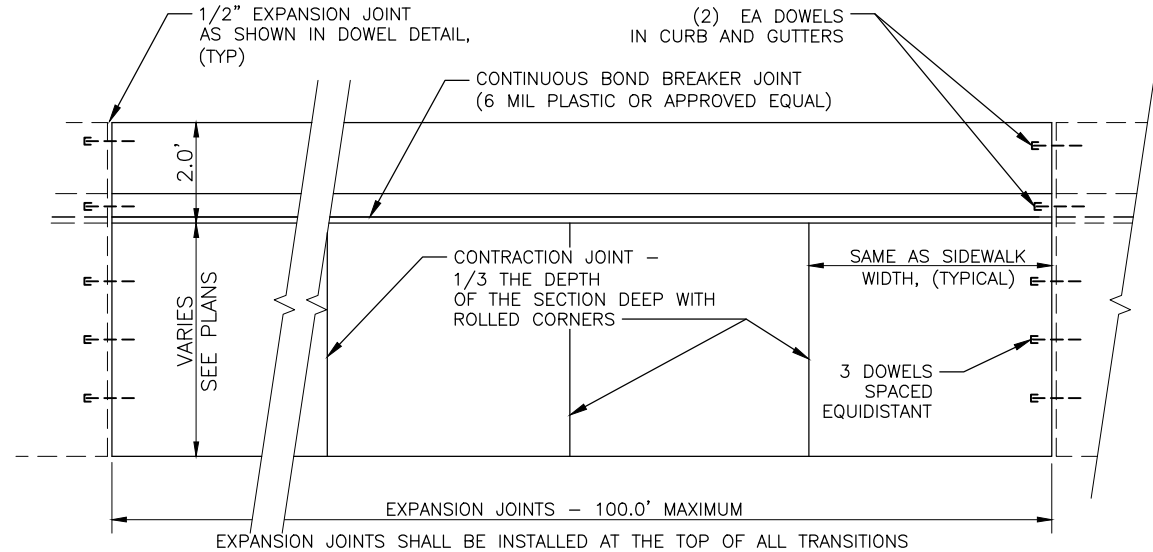
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5/29/2020
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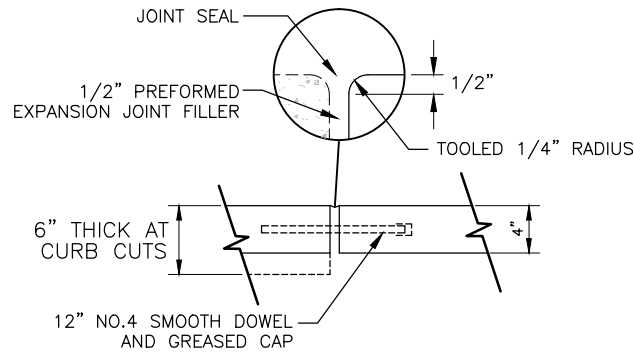
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(Peter Mamrol) KE#: 00385



STANDARD SIDEWALK, CURB & GUTTER
NTS



DOWEL DETAIL
NTS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	E6	E7

NOTES:

- CURB CUTS AND RAMPS SHALL BE 6" THICK TO INCLUDE TRANSITIONS.
- INSTALL CONTINUOUS FULL DEPTH 1/8" CONSTRUCTION JOINT AT ALL LOCATIONS WHERE SIDEWALK AND CURB (ALL TYPES) MEET.
- PROTECT CONCRETE DURING CURE TIME.
- CONCRETE SHALL RECEIVE A MEDIUM BROOMED FINISH RUNNING PERPENDICULAR TO THE CURB RAMP RUNS AND UPPER LANDINGS AND PARALLEL TO DIRECTION OF TRAVEL ON LOWER LANDINGS.
- SEAL ALL EXPANSION JOINTS WITH HOT POURED ELASTIC TYPE JOINT SEAL CONFORMING TO AASHTO M173-60 REQUIREMENTS.
- FOR SIDEWALK LARGER OR DIFFERENTLY CONFIGURED THAN SHOWN PLACE EXPANSION AND CONTRACTION JOINTS AS DIRECTED BY ENGINEER.
- INSTALL 1/2" CONSTRUCTION JOINT BETWEEN NEW CONCRETE AND ADJACENT POLES AND HYDRANTS.
- STEEL REINFORCEMENT FOR CURB CUTS AND RAMPS SHALL BE 6" X 6" - W2.9 X W2.9 WMM. FOR TYPICAL SIDEWALK REINFORCEMENT SHALL BE 6" X 6" - W1.4 X W1.4 WMM. ALL STEEL SHALL BE SET ON SPACERS AND PULLED UP AS REQUIRED TO POSITION STEEL 1-1/2" FROM BOTTOM OF SIDEWALK.
- SAWCUT ALL MATCH LINES WHERE NEW CONSTRUCTION OF PAVEMENT, SIDEWALK, OR CURBING ABUTS EXISTING FEATURES. WORK IS SUBSIDIARY TO 202 PAY ITEMS.
- DO NOT CONSTRUCT GUTTER PAN SLOPES STEEPER THAN 5% ALONG DEPRESSED C&G.
- EXPANSION JOINTS IN SIDEWALK SHALL LINE UP WITH EXPANSION JOINTS IN C&G.
- TRANSITION FROM STANDARD CURB AND GUTTER WHERE SIDEWALK SLOPE MAKES IT NECESSARY TO LENGTHEN A RAMP RUN TO AVOID EXCEEDING THE ALLOWABLE RAMP SLOPE. IT SHOULD NOT BE MADE LONGER THAN 15 FEET FOR A 6" CURB HEIGHT, OR IN GENERAL, 30 TIMES THE CURB HEIGHT. THE SLOPES RESULTING FROM THOSE RUN LENGTHS MUST BE ACCEPTED BY THE ENGINEER.
- CONSTRUCT RAMP SLOPES AT A NOMINAL 7.7% GRADE, OR FLATTER. RAMP SLOPES MAY BE INCREASED TO A MAXIMUM OF 8.3% WHEN SITE CONDITIONS WARRANT IT. RAMP LENGTHS SHOULD BE INCREASED TO KEEP GRADES UNDER THE 8.3% MAXIMUM.
- INSTALL FEDERAL YELLOW CAST IRON DETECTABLE WARNINGS IN THE LANDING OF ALL RAMPS.
- ALL CURB RAMP LAYOUTS AND DIMENSIONS IN THIS PLAN SET ARE APPROXIMATE AND NEED TO BE FIELD FIT AND SHALL MEET APPLICABLE 2006 AND 2010 ADA STANDARDS FOR MAXIMUM SLOPES. FINAL LAYOUT TO BE APPROVED BY THE ENGINEER PRIOR TO CONCRETE PLACEMENT.

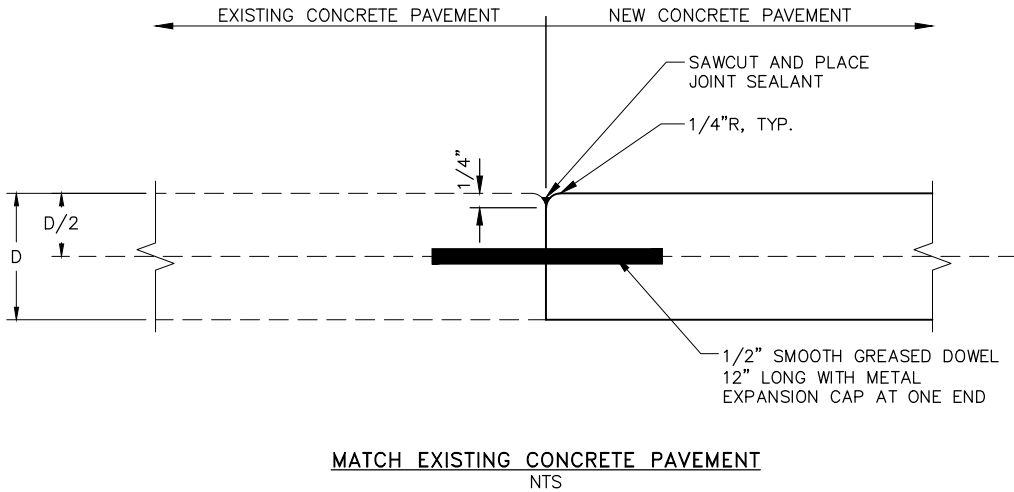
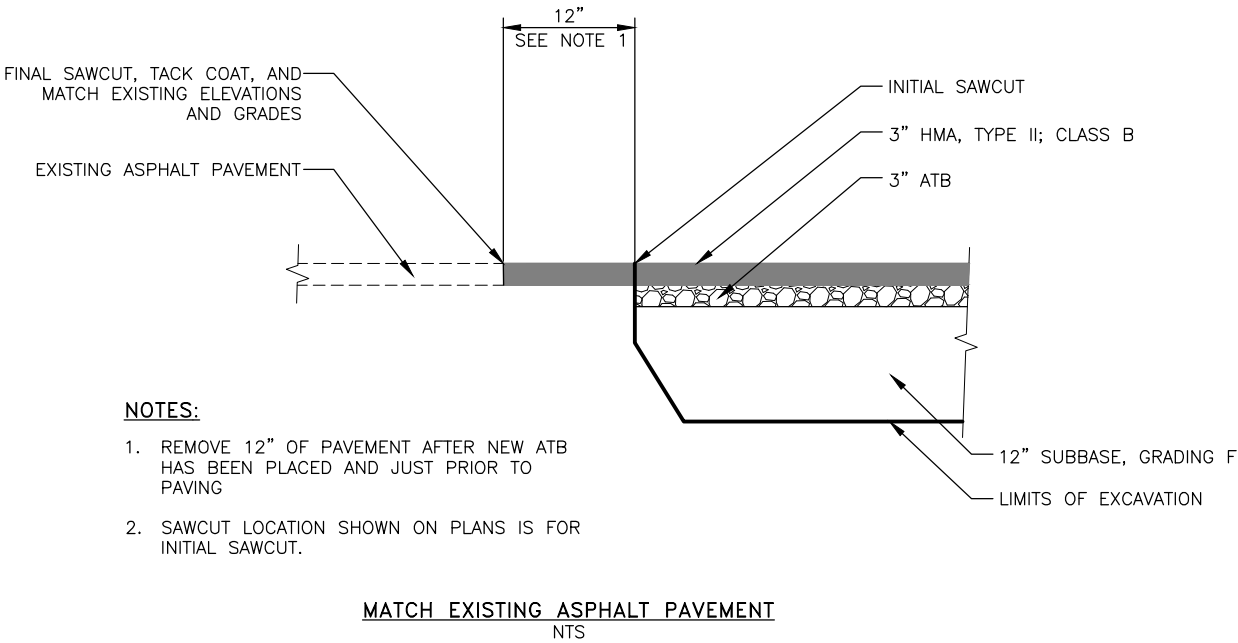
SIDEWALK DETAILS

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
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5/29/2020

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KE#: 00385
(Peter Mamro)

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	E7	E7



MISC DETAILS

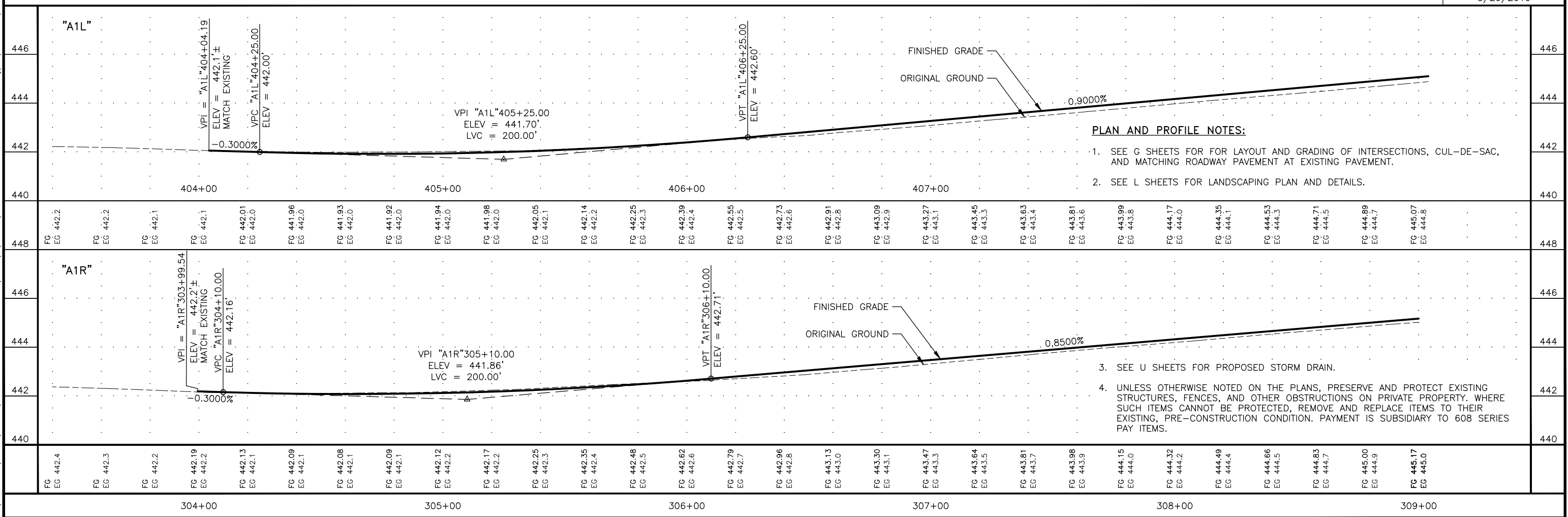
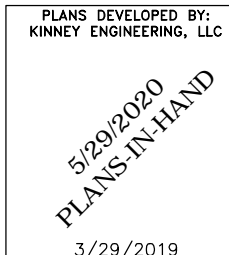
PLANS DEVELOPED BY:
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5/29/2020
PLANS-IN-HAND

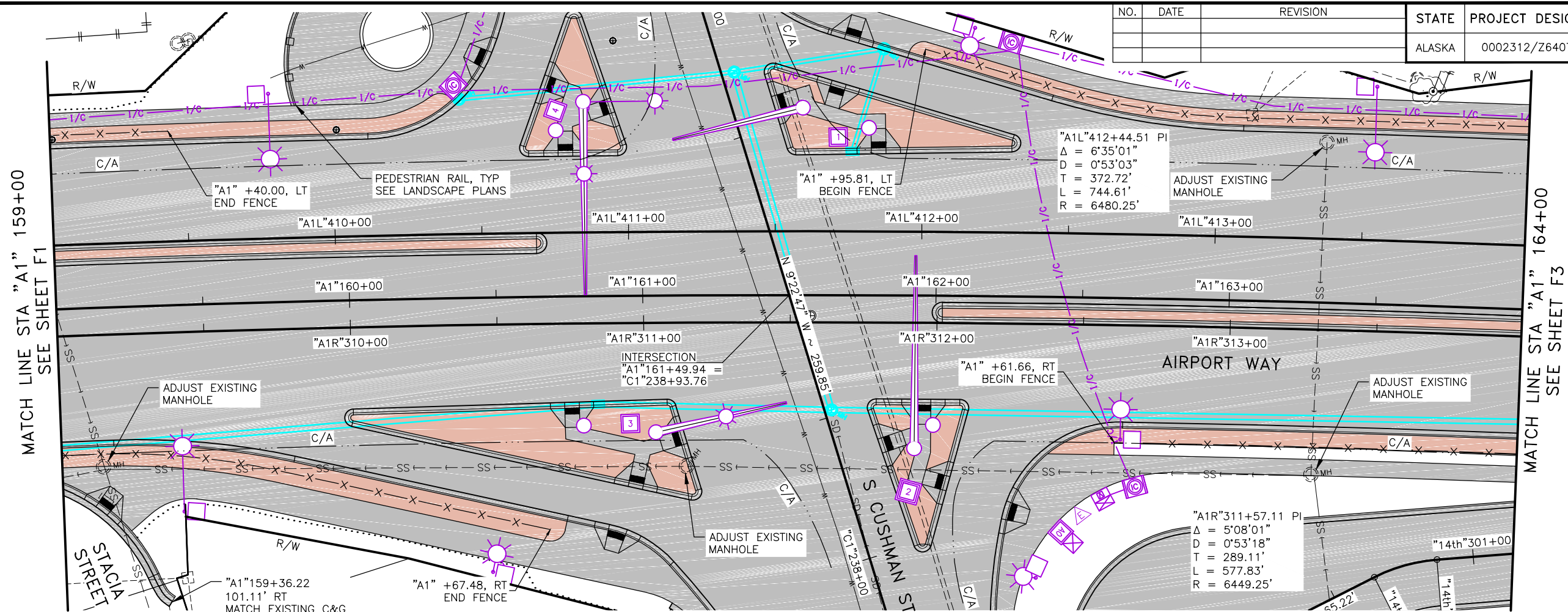
5/29/2020

M "A1L"403+19.82 PI
 $\Delta = 20^{\circ}29'46''$
 $D = 4^{\circ}32'05''$

"A1L"407+47.44 PI
 $\Delta = 2^{\circ}54'45''$
 $D = 2^{\circ}51'53''$



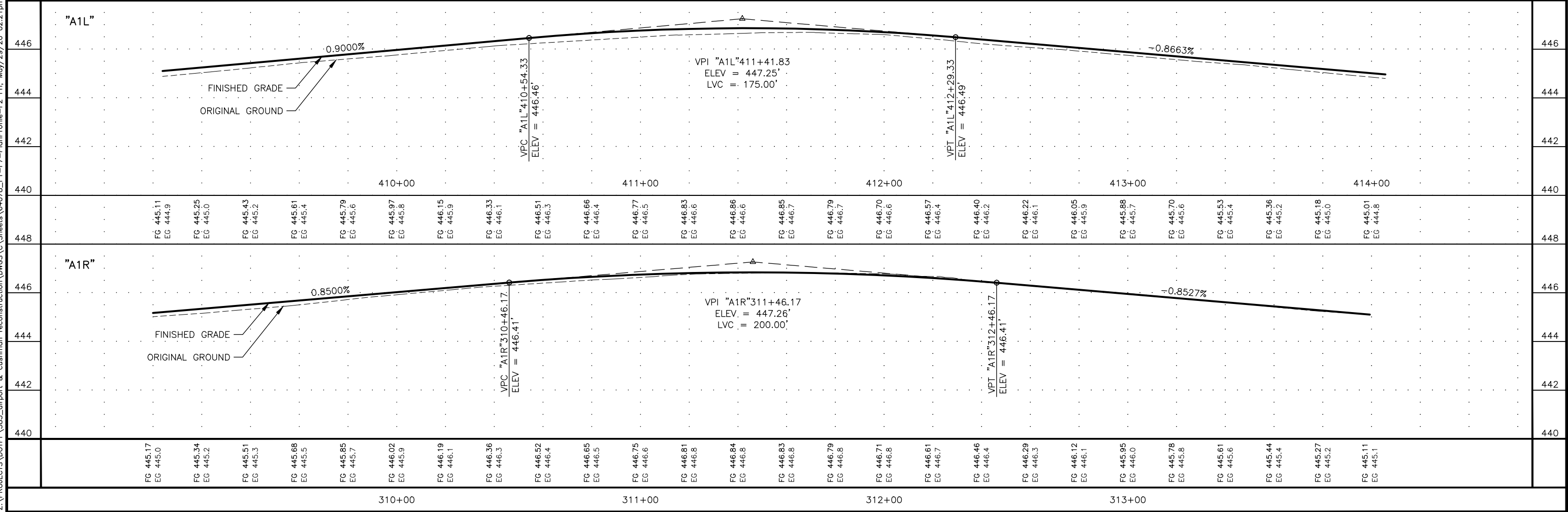
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			ALASKA	0002312/Z640780000	2020	F2	F7



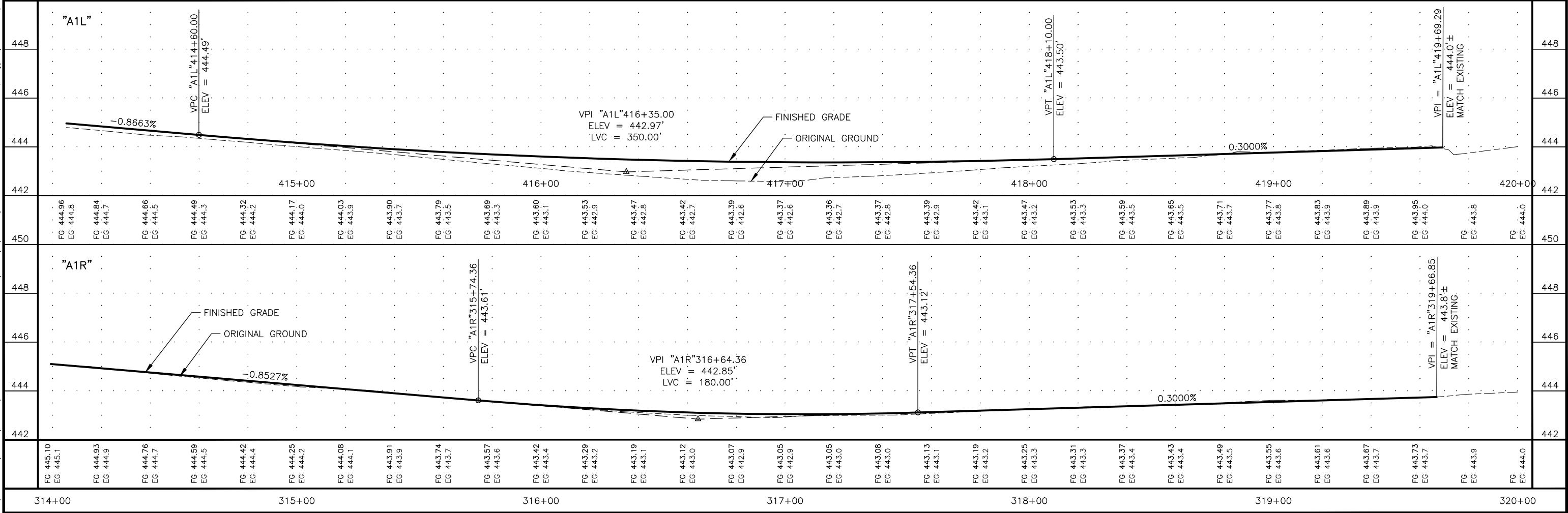
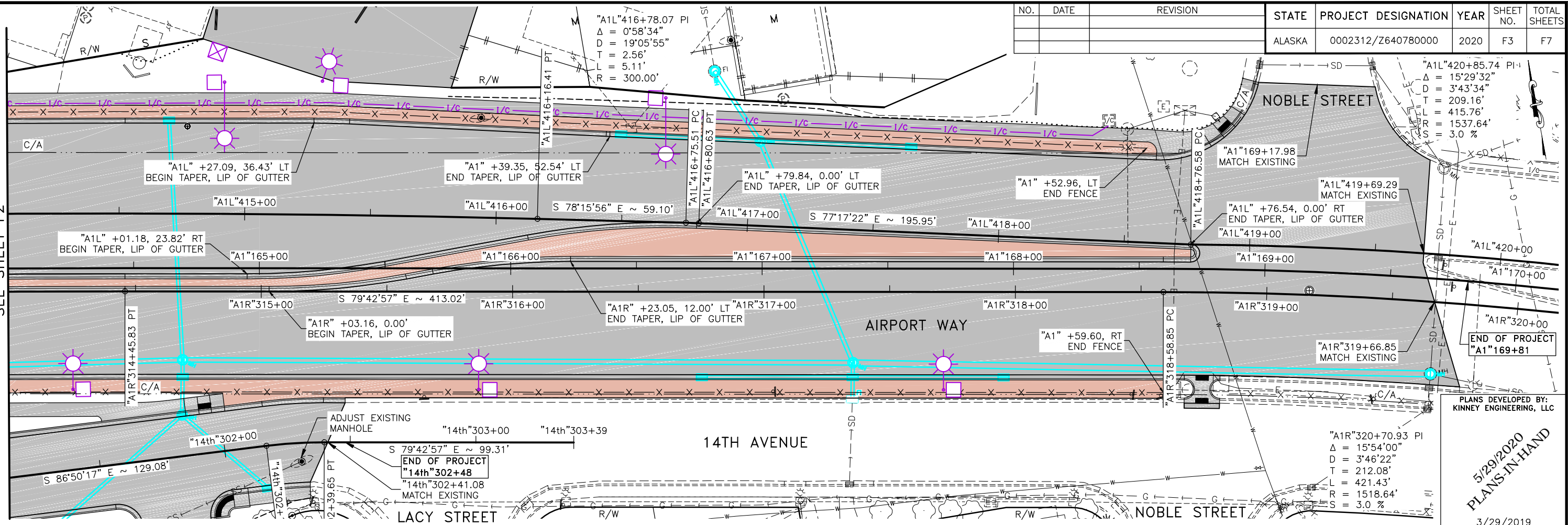
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PLANS-IN-HAND

3/29/2019

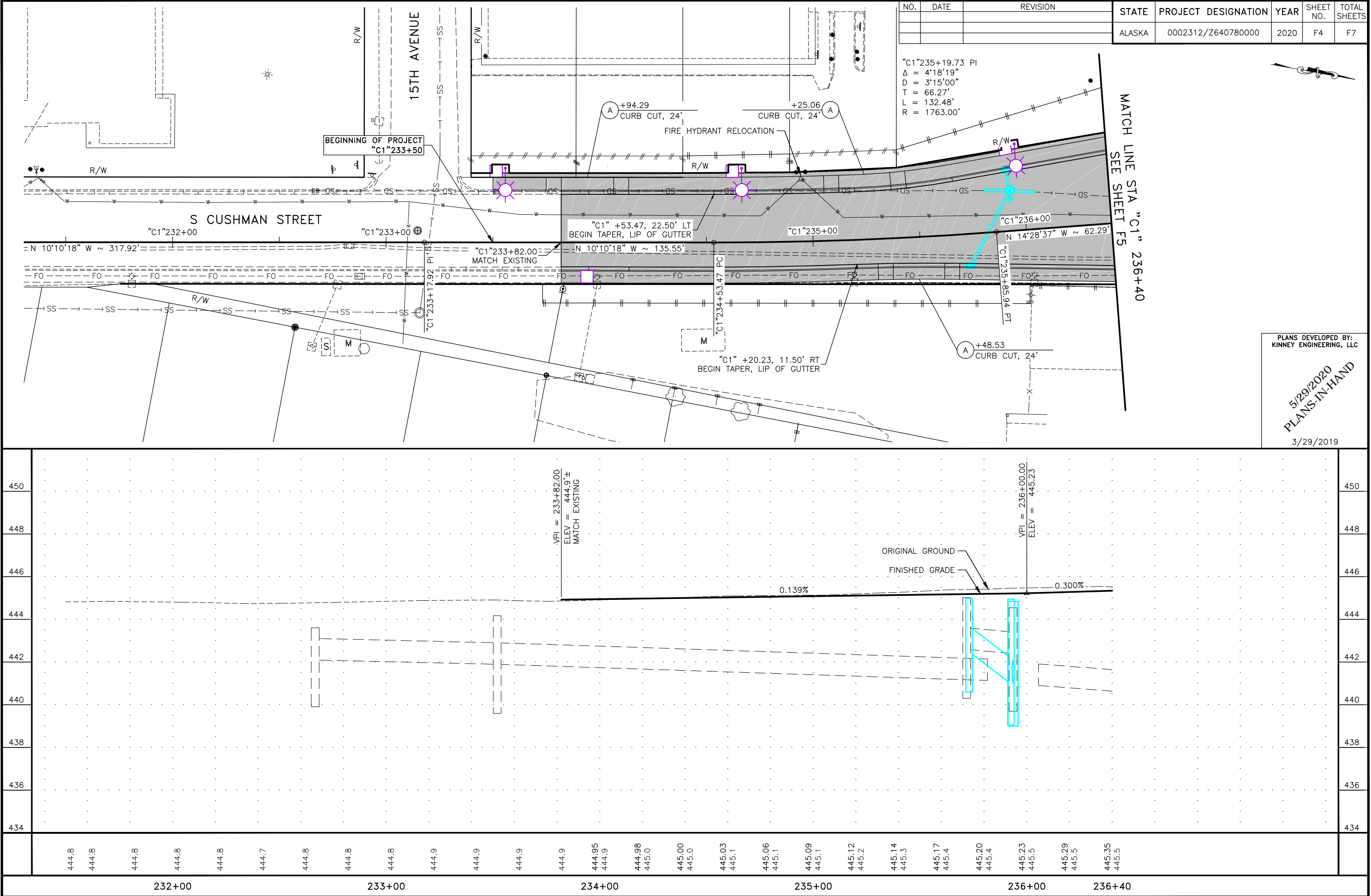


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			ALASKA	0002312/Z640780000	2020	F3	F7



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(Sophia Hurf) KE#: 00385

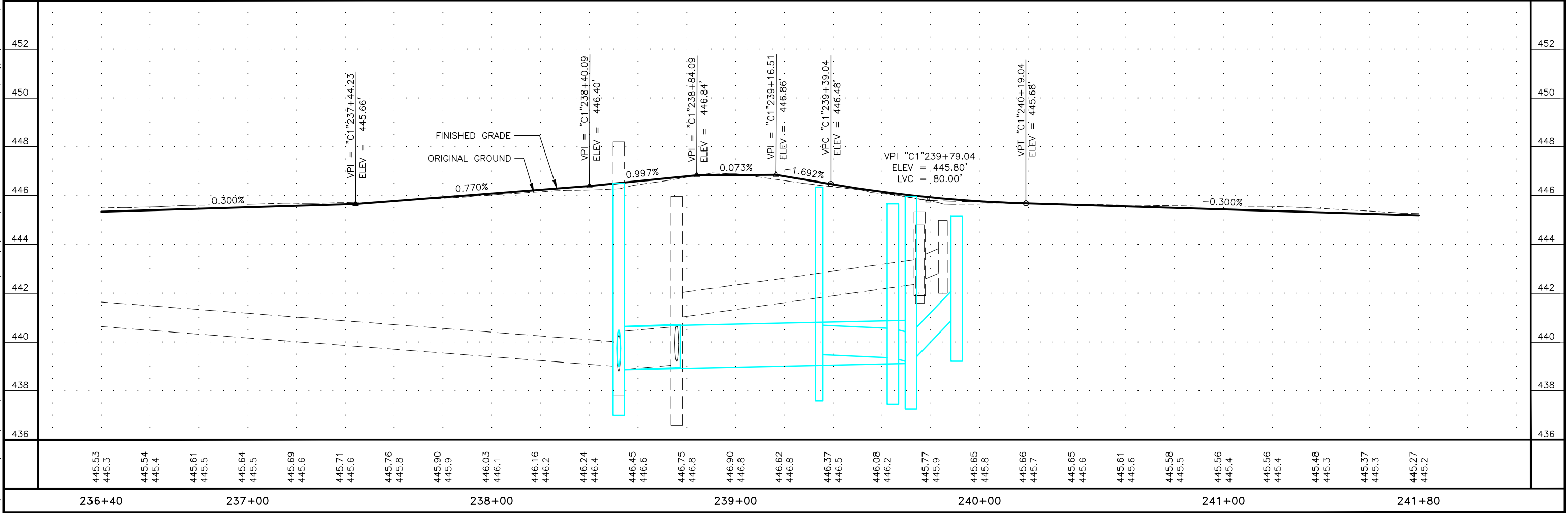
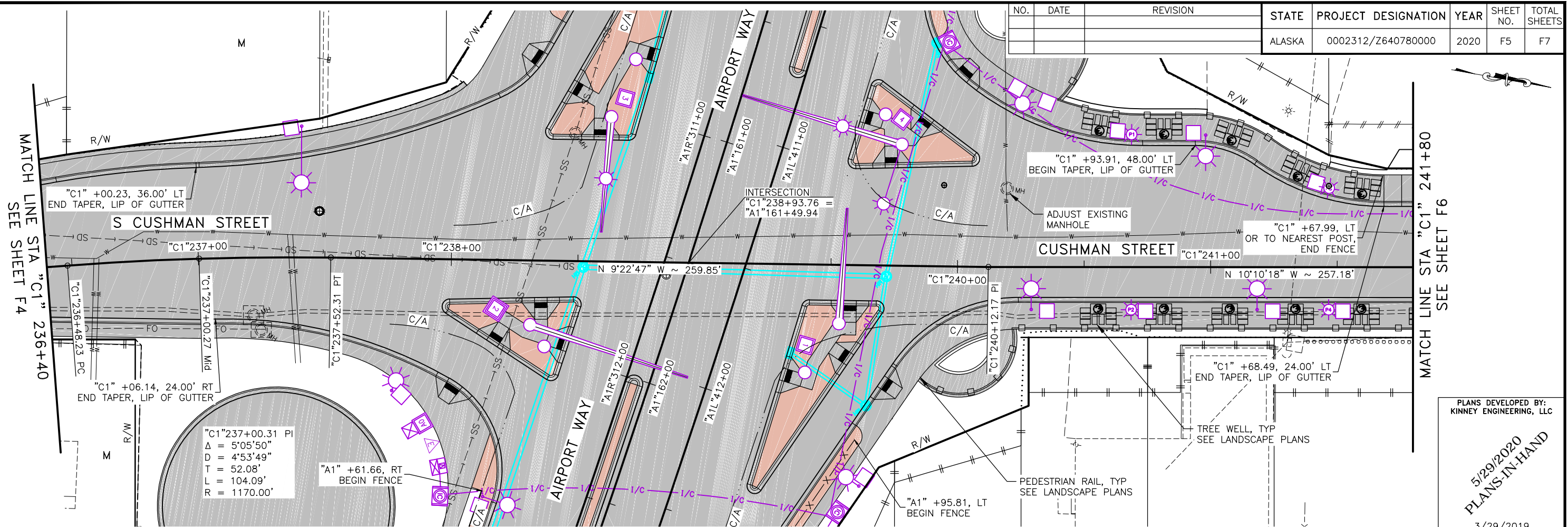


NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0002312/Z640780000	2020	F4	F7

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5/29/2020
PLANS-IN-HAND
3/29/2019

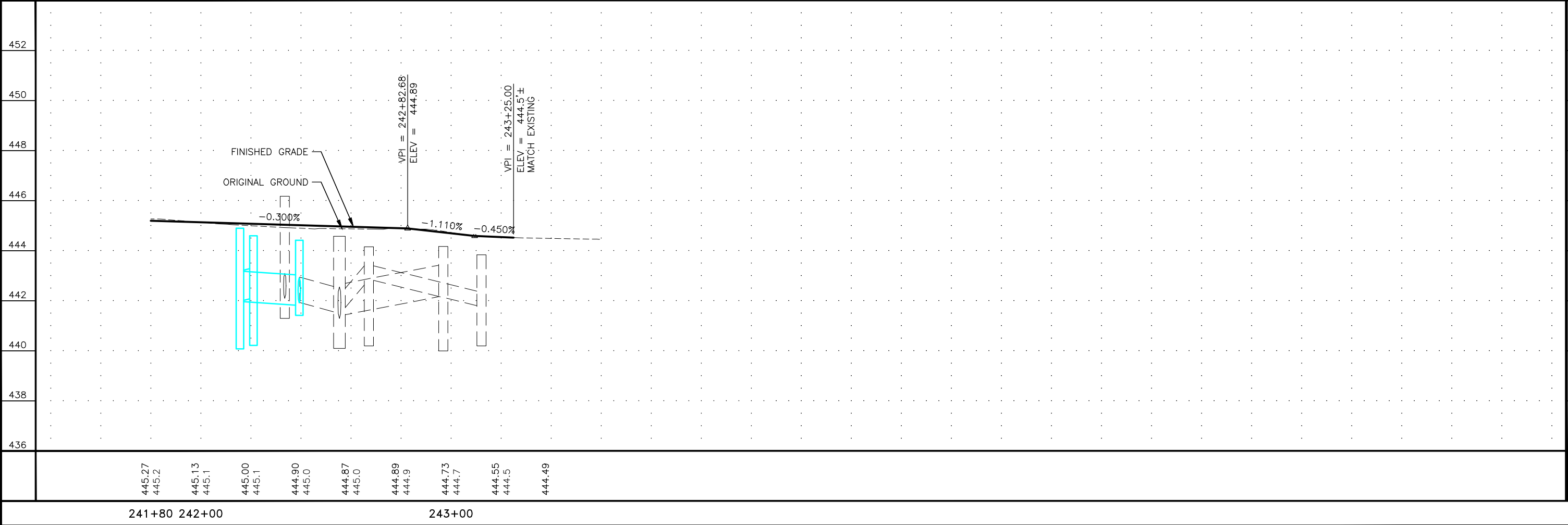
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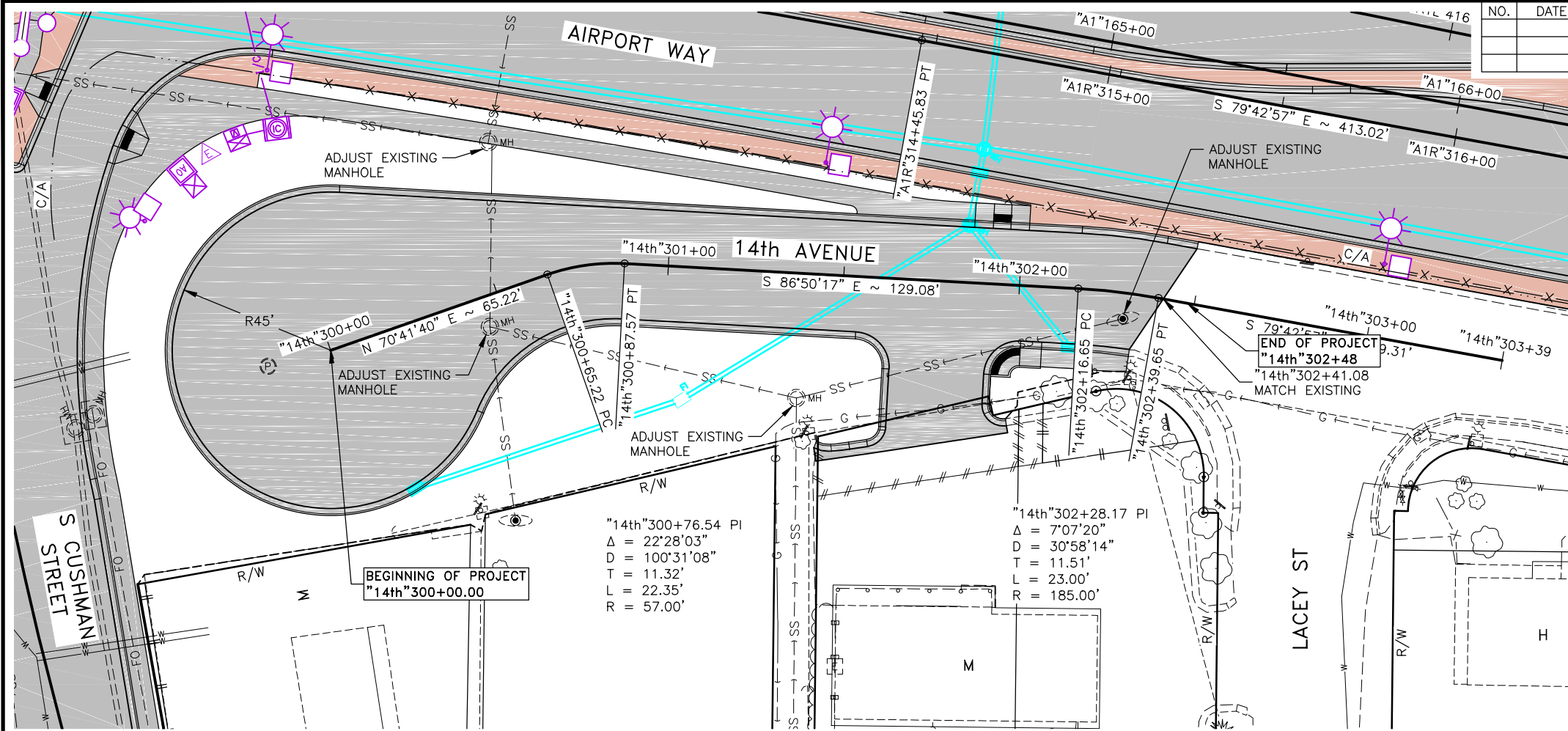
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3/29/2019



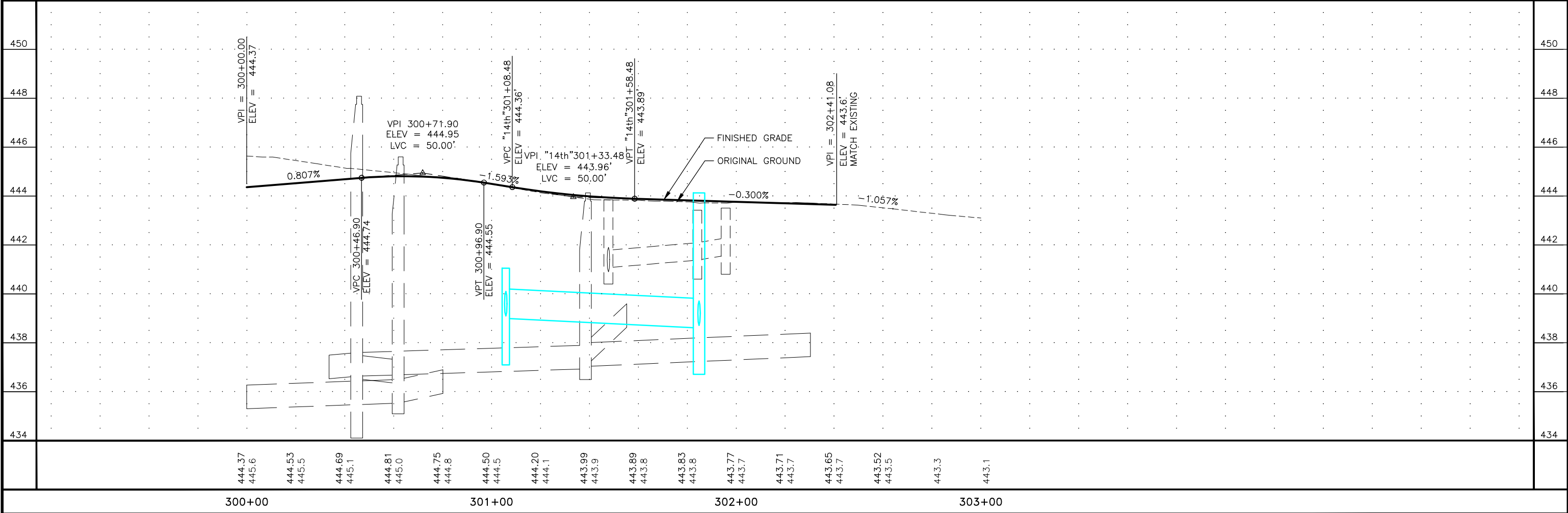
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(Sophia Huff) KE# 00385



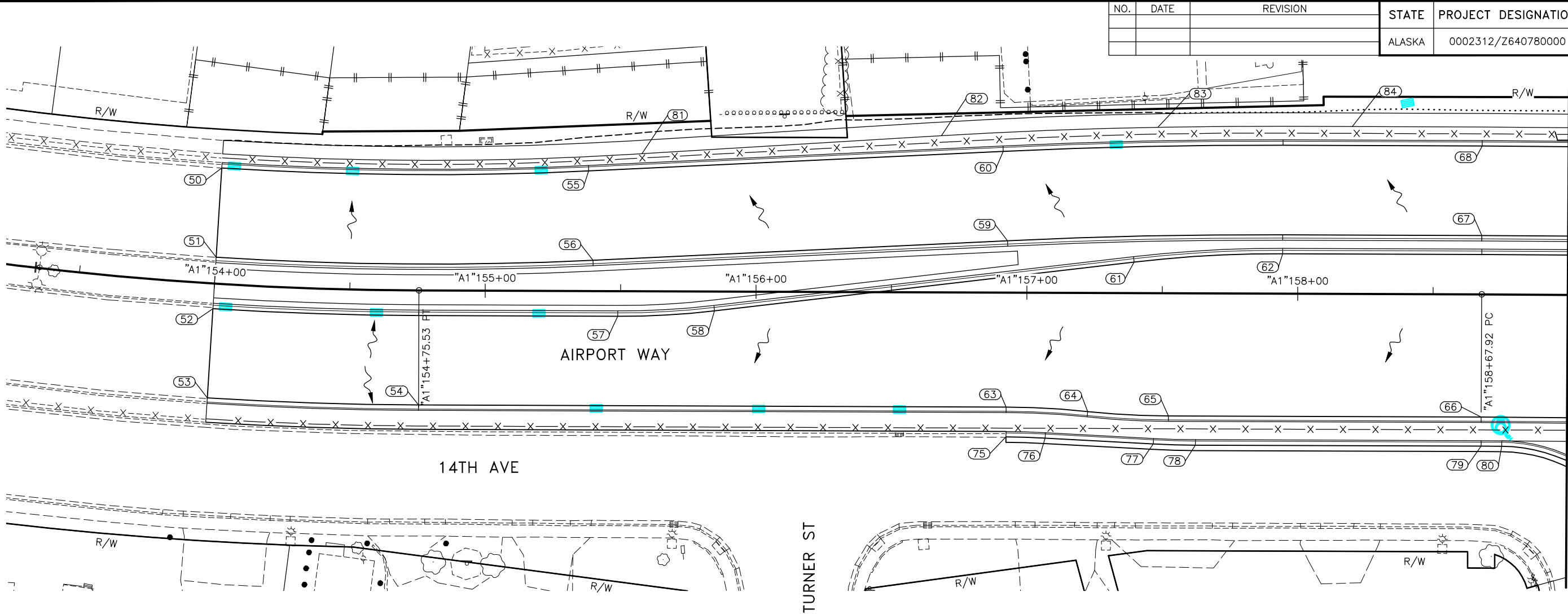
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(Peter Mamrol) KE#: 00385



GRADING POINT TABLE				
PT#	STATION	OFFSET	ELEV	DESC
50	"A1" 154+00.00	42.75 LT	ME	PC
51	"A1" 154+00.00	9.75 LT	ME	PC
52	"A1" 154+00.01	9.25 RT	ME	PC
53	"A1" 154+00.01	42.25 RT	ME	PC
54	"A1" 154+75.53	42.25 RT	442.56'	PT
55	"A1" 155+38.07	44.34 LT	440.96'	PT
56	"A1" 155+39.75	11.38 LT	442.06'	PT
57	"A1" 155+48.95	9.25 RT	442.30'	PC
58	"A1" 155+84.70	7.11 RT	442.55'	PT
59	"A1" 156+92.77	19.17 LT	443.24'	PC
60	"A1" 156+91.09	52.12 LT	442.31'	PC
61	"A1" 157+39.58	11.47 LT	444.22'	PC
62	"A1" 157+94.39	14.75 LT	444.75'	PT
63	"A1" 156+92.48	42.25 RT	442.75'	PC
64	"A1" 157+22.63	43.76 RT	442.97'	PCC
65	"A1" 157+52.41	45.25 RT	443.20'	PT
66	"A1" 158+67.92	45.25 RT	444.18'	PI

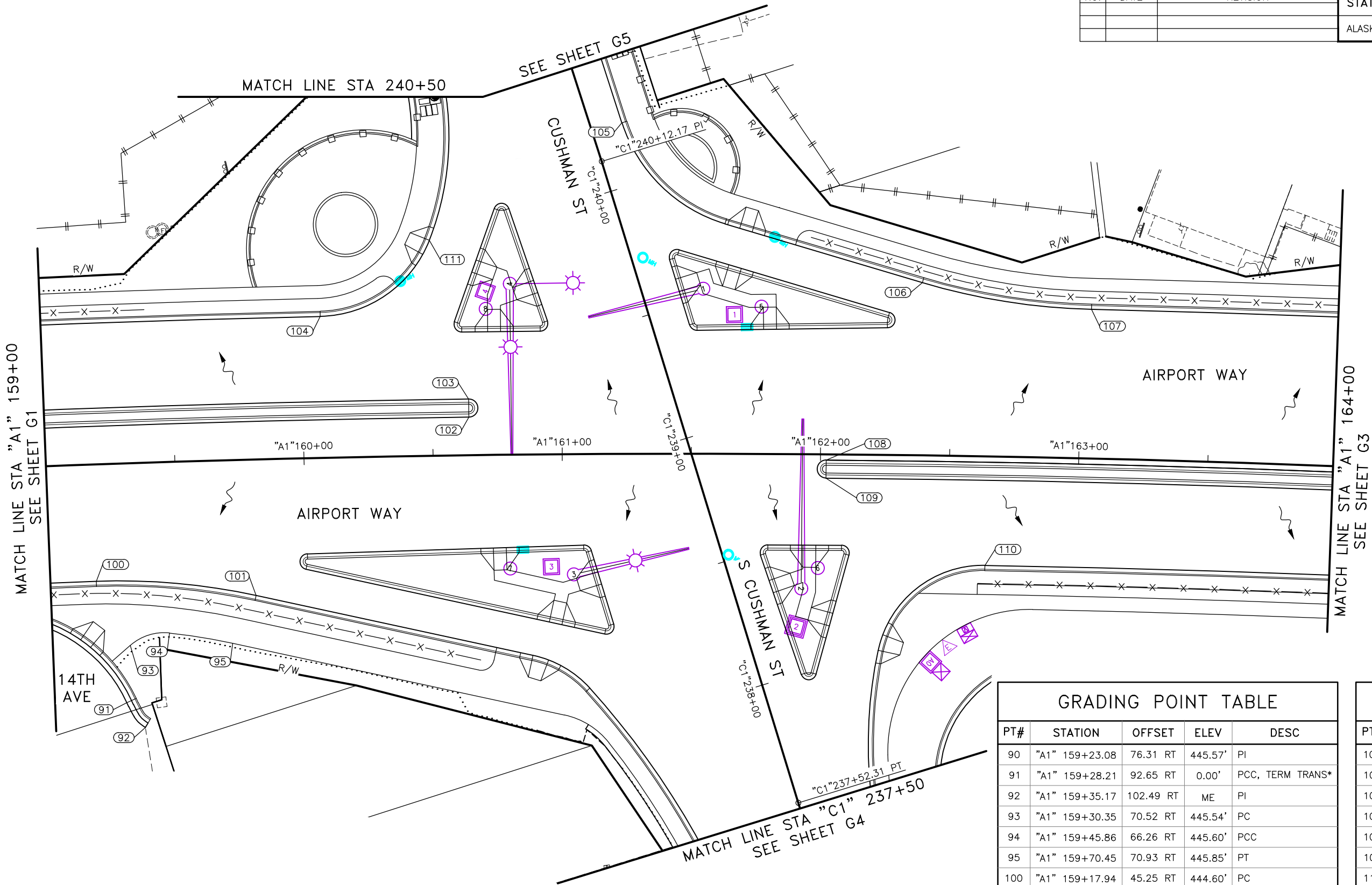
GRADING POINT TABLE				
PT#	STATION	OFFSET	ELEV	DESC
67	"A1" 158+67.92	21.75 LT	444.82'	PT
68	"A1" 158+67.93	54.75 LT	443.89'	PC
75	"A1" 156+92.50	53.25 RT	ME	PC
76	"A1" 157+06.95	53.61 RT	442.58'	PT
77	"A1" 157+46.89	55.61 RT	442.91'	PC
78	"A1" 157+62.44	56.00 RT	443.01'	PT
79	"A1" 158+67.92	56.00 RT	443.85'	PI
80	"A1" 158+75.60	56.00 RT	443.81'	PC
81	"A1" 155+57.65	50.75 LT	441.69'	VPI
82	"A1" 156+68.28	57.85 LT	443.18'	VPI
83	"A1" 157+48.10	61.22 LT	443.85'	VPI
84	"A1" 158+19.92	61.75 LT	444.00'	VPI
85	"A1" 157+94.39	54.75 LT	443.23'	PT
86	"A1" 154+75.53	9.25 RT	442.08'	PT
87	"A1" 158+67.92	14.75 LT	445.38'	PC
88	"A1" 157+94.39	21.75 LT	444.16'	PT

GRADING PLAN

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
PLANS-IN-HAND
5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\c\Sheets\64078_G1-G7_GRADING-G2 Fri, May/29/20 04:48pm (Peter Mamrol) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	G2	G11



SHEET NOTES
SEE SHEETS G7-G10 FOR SPLITTER ISLAND LAYOUT.

GRADING POINT TABLE				
PT#	STATION	OFFSET	ELEV	DESC
90	"A1" 159+23.08	76.31 RT	445.57'	PI
91	"A1" 159+28.21	92.65 RT	0.00'	PCC, TERM TRANS*
92	"A1" 159+35.17	102.49 RT	ME	PI
93	"A1" 159+30.35	70.52 RT	445.54'	PC
94	"A1" 159+45.86	66.26 RT	445.60'	PCC
95	"A1" 159+70.45	70.93 RT	445.85'	PT
100	"A1" 159+17.94	45.25 RT	444.60'	PC
101	"A1" 159+80.10	52.67 RT	445.15'	PT
102	"A1" 160+64.04	14.75 LT	447.03'	PC
103	"A1" 160+64.04	21.75 LT	446.58'	PT

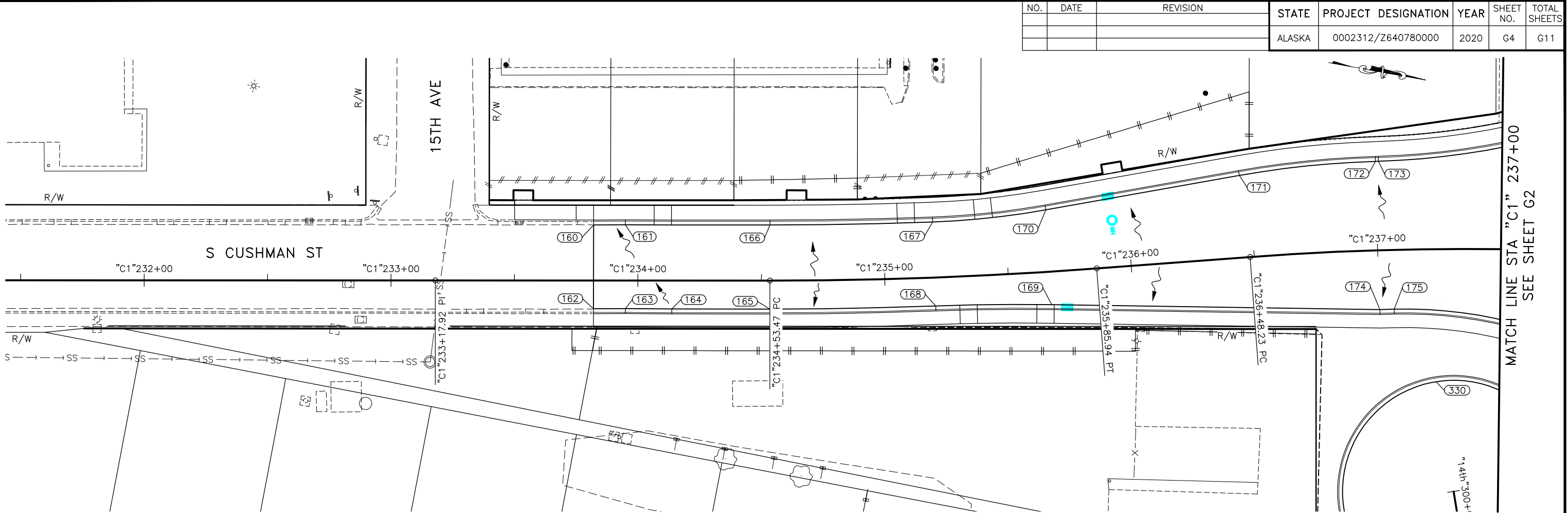
GRADING POINT TABLE				
PT#	STATION	OFFSET	ELEV	DESC
104	"A1" 160+07.51	54.75 LT	445.14'	PC
105	"C1" 240+24.01	12.00 RT	445.43'	PC
106	"A1" 162+38.53	66.87 LT	445.61'	PC
107	"A1" 163+03.55	57.75 LT	445.08'	PT
108	"A1" 162+02.22	2.25 RT	447.14'	PC
109	"A1" 162+02.22	9.25 RT	446.71'	PT
110	"A1" 162+64.39	42.25 RT	445.50'	PT
111	"C1" 240+02.49	72.71 LT	445.03'	PCC

GRADING PLAN

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
PLANS-IN-HAND

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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(Peter Mamrol) KE#: 00385



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	G4	G11

GRADING POINT TABLE				
PT#	STATION	OFFSET	ELEV	DESC
160	"C1" 233+82.00	22.48 LT	ME	PI
161	"C1" 233+94.92	22.53 LT	444.49'	PI
162	"C1" 233+82.00	11.42 RT	ME	PI
163	"C1" 233+94.92	11.38 RT	444.77'	PI
164	"C1" 234+13.73	11.50 RT	444.80'	PI
165	"C1" 234+53.47	11.50 RT	444.85'	PC
166	"C1" 234+53.47	22.50 LT	444.57'	PC
167	"C1" 235+20.23	22.50 LT	444.67'	PCC
168	"C1" 235+20.23	11.50 RT	444.94'	PCC
169	"C1" 235+66.88	13.35 RT	444.98'	PT
170	"C1" 235+66.89	25.08 LT	444.68'	PT
171	"C1" 236+46.36	33.23 LT	444.70'	PC
172	"C1" 237+00.23	36.00 LT	444.81'	PT
173	"C1" 237+01.35	36.00 LT	444.81'	PC
174	"C1" 237+00.23	24.00 RT	445.17'	PI
175	"C1" 237+06.14	24.00 RT	445.18'	PC
176	"C1" 234+13.58	22.50 LT	444.52'	PT

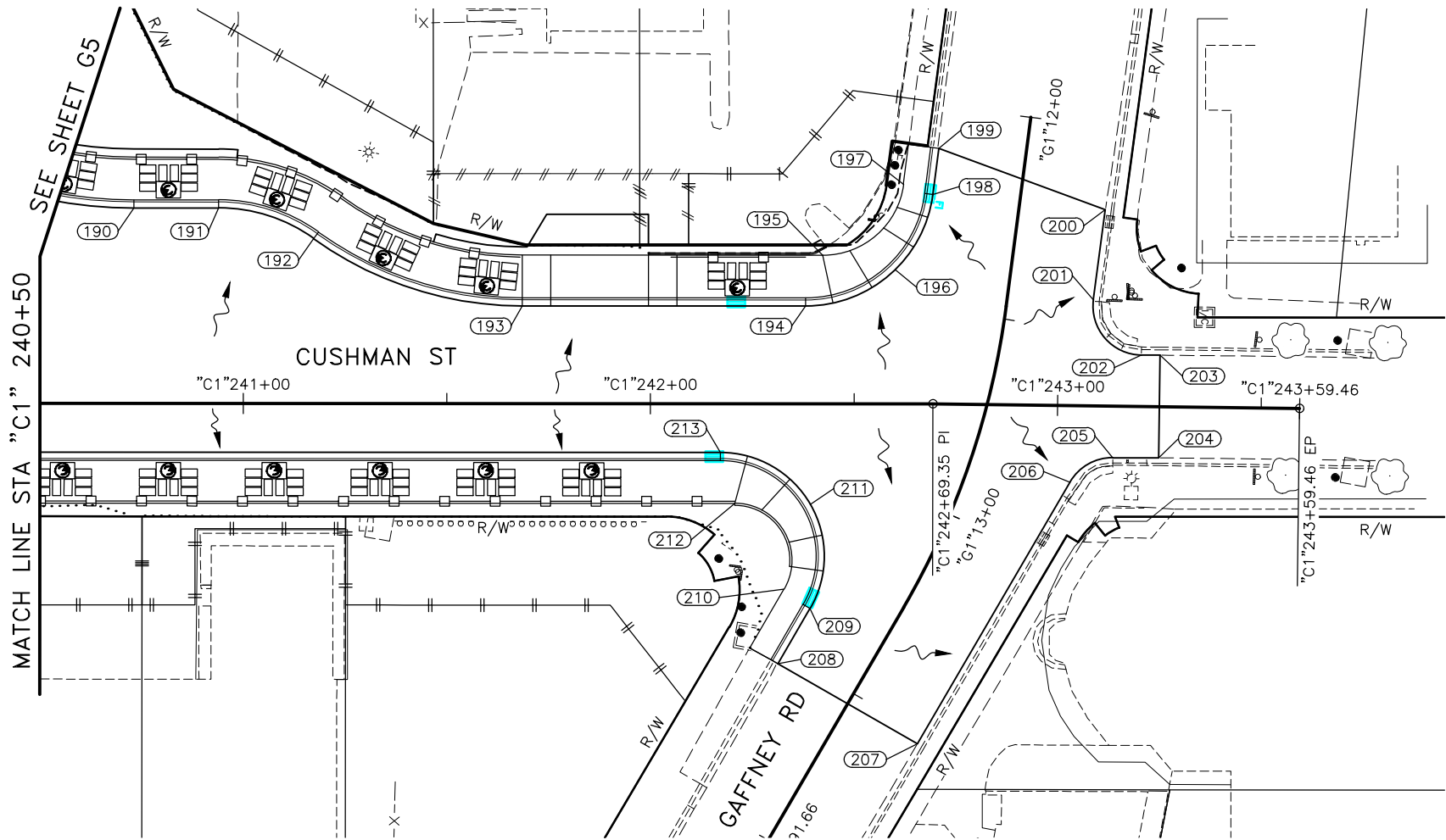
GRADING PLAN

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
PLANS-IN-HAND

5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	G5	G11



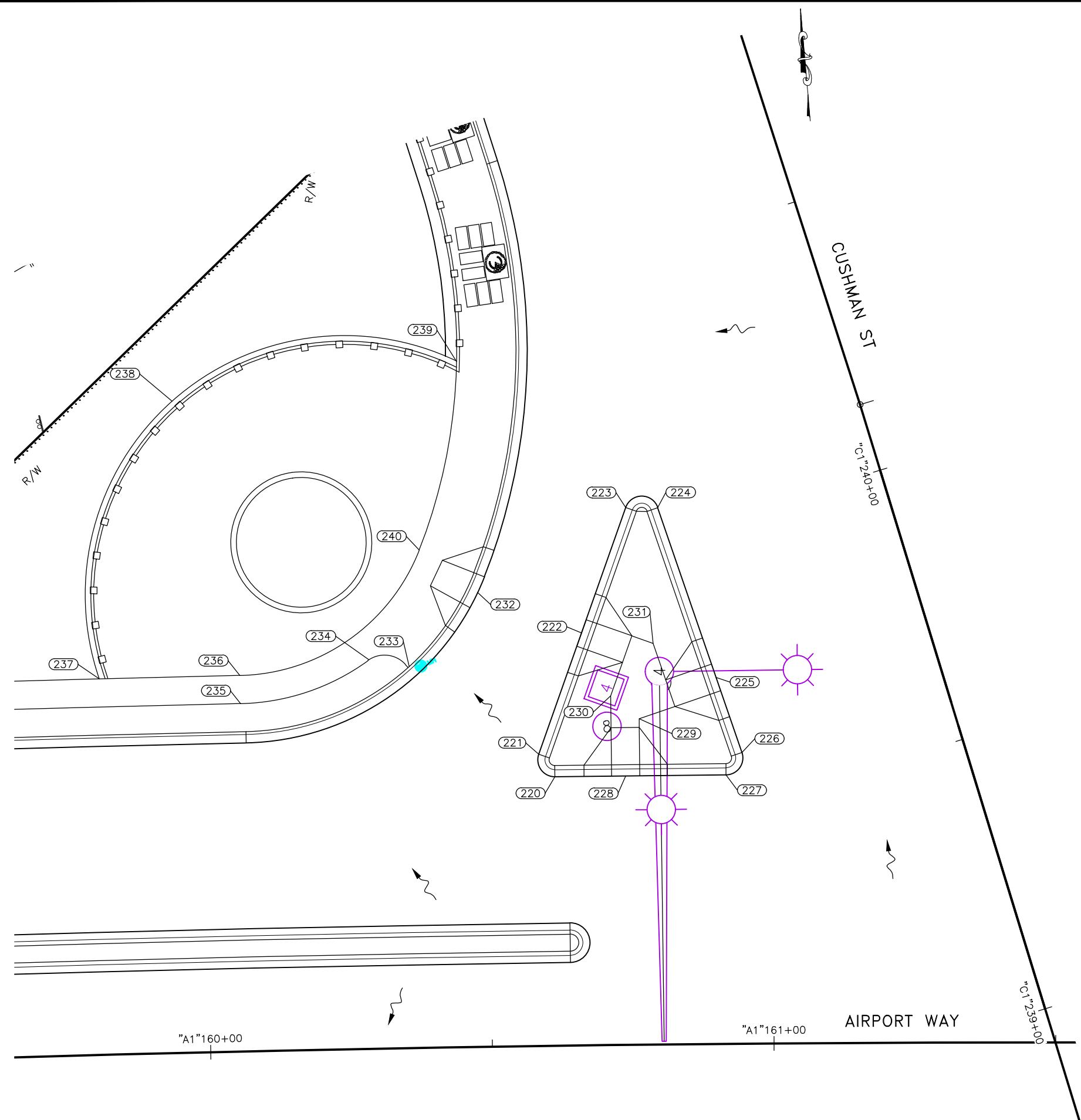
GRADING POINT TABLE				
PT#	STATION	OFFSET	ELEV	DESC
190	"C1" 240+73.12	48.00 LT	444.56'	PT
191	"C1" 240+93.91	48.00 LT	444.50'	PC
192	"C1" 241+17.24	40.49 LT	444.58'	PCC
193	"C1" 241+68.49	24.00 LT	444.75'	PT
194	"C1" 242+38.09	24.00 LT	444.60'	PC
195	"C1" 242+42.26	36.50 LT	445.20'	PC
196	"C1" 242+60.10	32.96 LT	444.50'	RAMP
197	"C1" 242+62.09	53.93 LT	444.98'	PT
198	"C1" 242+69.33	51.45 LT	444.42'	PT
199	"C1" 242+70.03	62.78 LT	ME	PI
200	"C1" 243+11.10	48.21 LT	ME	PI
201	"C1" 243+08.44	26.09 LT	444.22'	PC
202	"C1" 243+20.40	12.66 LT	444.58'	PT
203	"C1" 243+25.00	12.66 LT	ME	PI
204	"C1" 243+25.00	12.55 RT	ME	PI

GRADING POINT TABLE				
PT#	STATION	OFFSET	ELEV	DESC
205	"C1" 243+13.70	12.74 RT	444.59'	PC
206	"C1" 243+03.29	18.84 RT	444.37'	PT
207	"C1" 242+65.58	83.52 RT	ME	PI
208	"C1" 242+31.33	63.89 RT	ME	PI
209	"C1" 242+39.21	50.30 RT	444.39'	PT
210	"C1" 242+32.81	45.53 RT	444.97'	PT
211	"C1" 242+39.26	24.78 RT	444.66'	RAMP
212	"C1" 242+20.70	24.50 RT	445.48'	PC
213	"C1" 242+17.16	12.00 RT	444.93'	PC
214	"C1" 242+63.36	63.73 LT	ME	PI
215	"C1" 242+24.41	59.99 RT	ME	PI

GRADING PLAN

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
PLANS-IN-HAND
5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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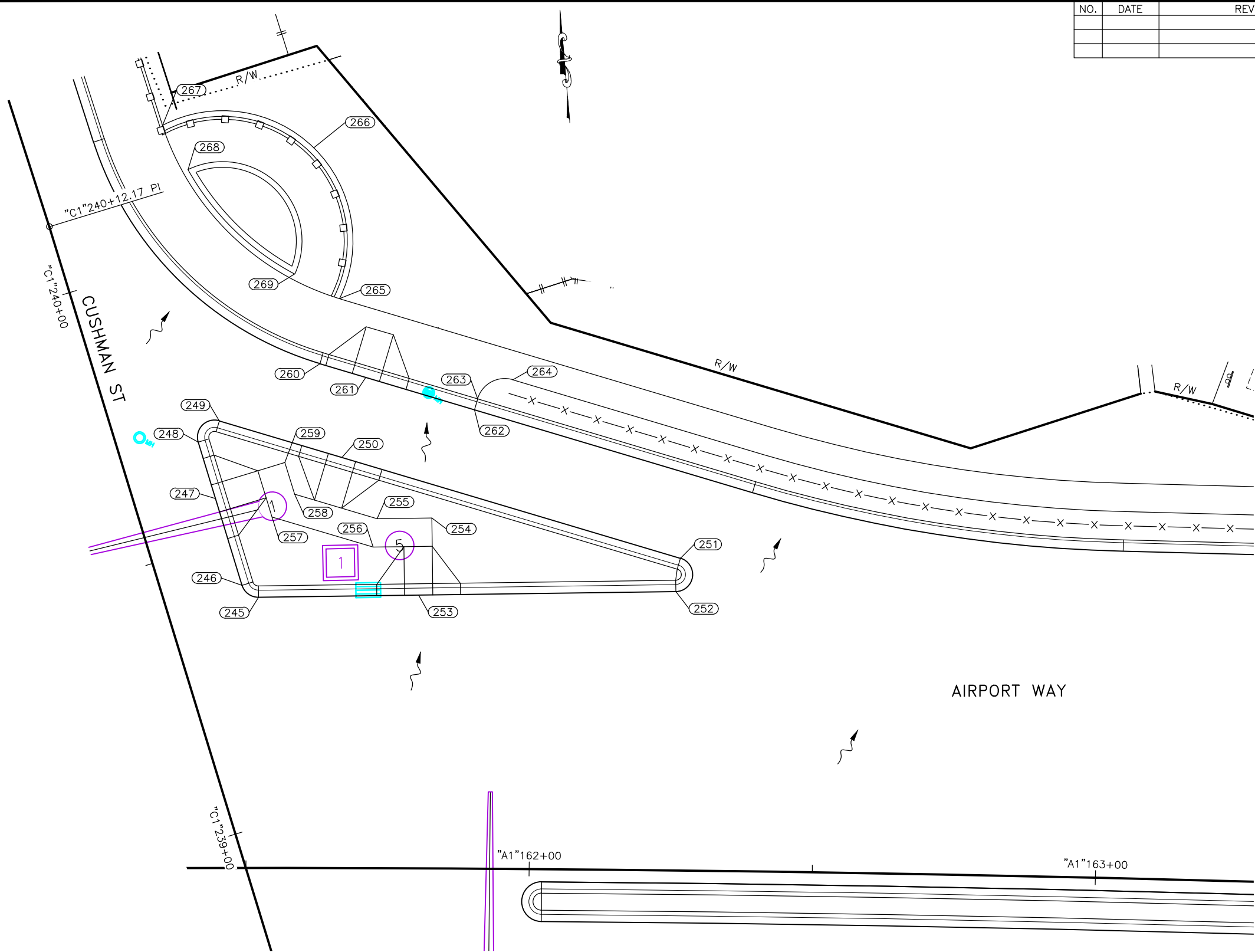
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	G6	G11

GRADING POINT TABLE				
PT#	STATION	OFFSET	ELEV	DESC
220	"C1" 239+64.86	71.13 LT	446.08'	PC
221	"C1" 239+69.52	72.70 LT	445.94'	PT
222	"C1" 239+87.89	59.14 LT	445.52'	RAMP
223	"C1" 240+06.88	45.12 LT	445.21'	PC
224	"C1" 240+05.20	39.71 LT	445.29'	PT
225	"C1" 239+73.36	38.62 LT	445.99'	RAMP
226	"C1" 239+59.27	38.14 LT	446.23'	PC
227	"C1" 239+56.29	41.99 LT	446.27'	PT
228	"C1" 239+61.33	59.06 LT	446.19'	RAMP
229	"C1" 239+70.34	53.81 LT	445.99'	PI
230	"C1" 239+75.70	57.45 LT	445.83'	PI
231	"C1" 239+82.38	47.52 LT	445.72'	PI
232	"C1" 240+00.18	74.67 LT	445.05'	RAMP
233	"C1" 239+91.18	90.12 LT	445.65'	PT
234	"C1" 239+94.39	96.60 LT	445.76'	PC
235	"C1" 239+93.64	120.69 LT	445.69'	PC
236	"C1" 239+98.45	119.33 LT	445.76'	PC
237	"C1" 240+05.19	143.39 LT	445.54'	PC
238	"C1" 240+50.13	116.03 LT	0.00'	MID
239	"C1" 240+41.40	65.82 LT	445.37'	PT
240	"C1" 240+10.41	82.38 LT	445.66'	PCC

GRADING PLAN

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
PLANS-IN-HAND

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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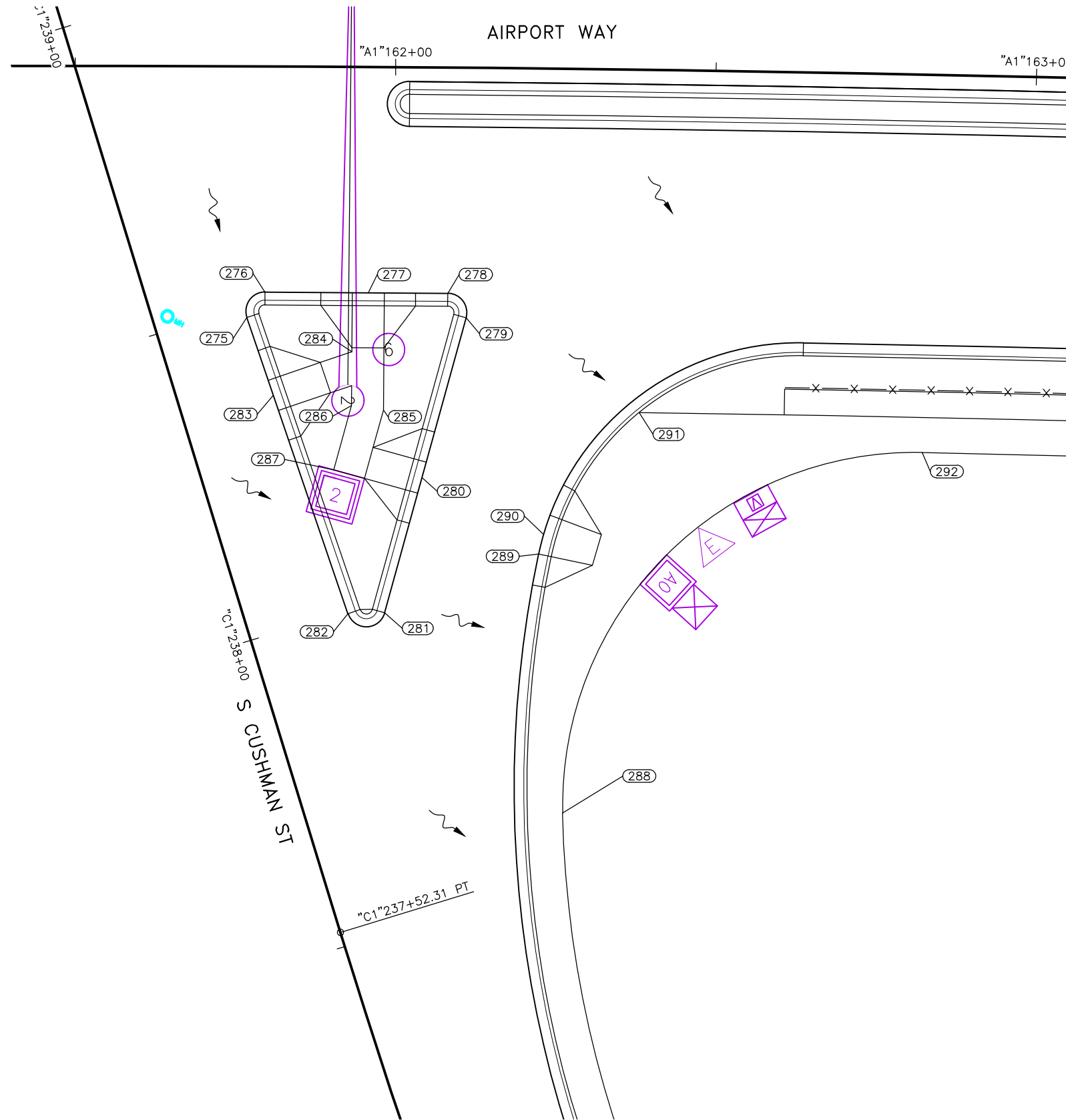
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	G7	G11

GRADING POINT TABLE				
PT#	STATION	OFFSET	ELEV	DESC
245	"C1" 239+38.79	16.16 RT	446.39'	PC
246	"C1" 239+41.67	14.00 RT	446.36'	PT
247	"C1" 239+57.69	14.00 RT	446.09'	RAMP
248	"C1" 239+68.10	14.00 RT	445.92'	PC
249	"C1" 239+70.60	18.66 RT	445.84'	PT
250	"C1" 239+58.07	37.49 RT	445.90'	RAMP
251	"C1" 239+23.54	89.41 RT	445.93'	PC
252	"C1" 239+18.16	86.91 RT	446.05'	PT
253	"C1" 239+30.87	43.31 RT	446.32'	RAMP
254	"C1" 239+43.21	49.52 RT	446.06'	PI
255	"C1" 239+45.91	40.24 RT	446.09'	PI
256	"C1" 239+41.33	38.11 RT	446.19'	PI
257	"C1" 239+51.65	22.58 RT	446.12'	PI
258	"C1" 239+54.33	27.58 RT	446.04'	PI
259	"C1" 239+60.19	27.58 RT	445.94'	PI
260	"C1" 239+75.05	38.60 RT	445.60'	PT
261	"C1" 239+70.35	45.66 RT	445.63'	RAMP
262	"C1" 239+59.28	62.31 RT	445.68'	PI
263	"C1" 239+60.94	63.42 RT	446.16'	PC
264	"C1" 239+62.34	70.35 RT	446.24'	PT
265	"C1" 239+85.03	45.26 RT	446.23'	PT
266	"C1" 240+11.80	48.71 RT	0.00'	MID
267	"C1" 240+23.08	24.50 RT	446.06'	PC
268	"C1" 240+14.27	26.41 RT	0.00'	PI
269	"C1" 239+91.50	38.98 RT	445.65'	PI

GRADING PLAN

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
PLANS-IN-HAND
5/29/2020

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	G8	G11



GRADING POINT TABLE				
PT#	STATION	OFFSET	ELEV	DESC
275	"C1" 238+48.34	14.13 RT	446.43'	PC
276	"C1" 238+51.30	18.02 RT	446.50'	PT
277	"C1" 238+46.49	33.40 RT	446.43'	RAMP
278	"C1" 238+42.76	45.23 RT	446.37'	PC
279	"C1" 238+38.29	46.86 RT	446.29'	PT
280	"C1" 238+16.46	32.96 RT	446.00'	RAMP
281	"C1" 237+98.01	21.22 RT	445.95'	PC
282	"C1" 237+99.53	15.69 RT	445.99'	PT
283	"C1" 238+35.52	14.54 RT	446.28'	RAMP
284	"C1" 238+38.46	28.25 RT	446.29'	PI
285	"C1" 238+28.30	30.30 RT	446.11'	PI
286	"C1" 238+30.43	25.73 RT	446.17'	PI
287	"C1" 238+21.66	20.15 RT	446.13'	PI
288	"C1" 237+59.98	38.59 RT	446.16'	PC
289	"C1" 237+99.73	46.87 RT	445.80'	PCC
290	"C1" 238+02.44	48.51 RT	445.80'	RAMP
291	"C1" 238+16.24	68.33 RT	446.22'	PI
292	"C1" 237+97.32	108.73 RT	446.53'	PT

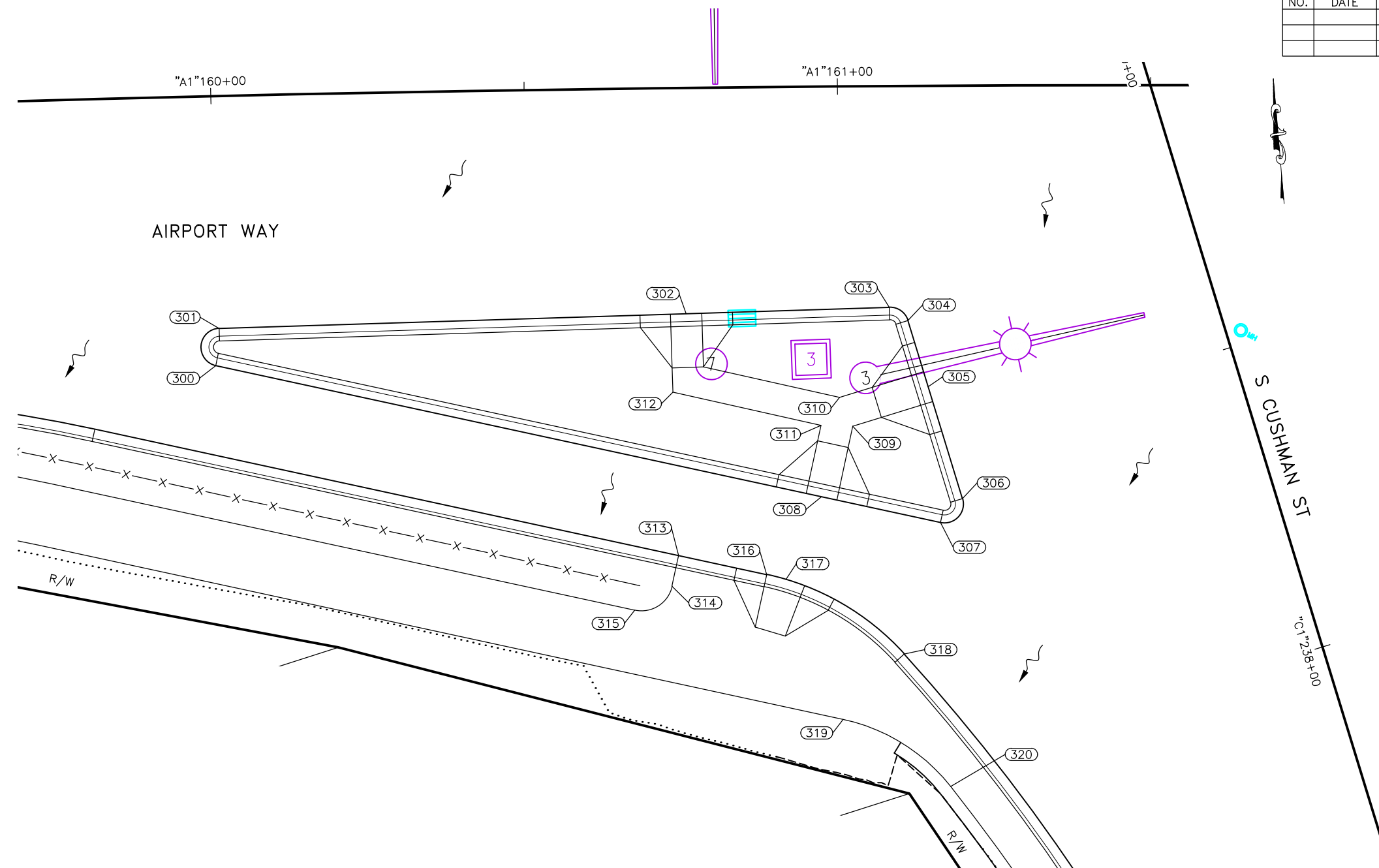
GRADING PLAN

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND

5/29/2020

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	G9	G11



GRADING POINT TABLE				
PT#	STATION	OFFSET	ELEV	DESC
300	"C1" 238+94.67	155.71 LT	445.50'	PC
301	"C1" 239+00.18	153.46 LT	445.58'	PT
302	"C1" 238+80.60	81.50 LT	446.28'	RAMP
303	"C1" 238+72.08	50.21 LT	446.46'	PC
304	"C1" 238+69.18	48.00 LT	446.44'	PT
305	"C1" 238+58.15	48.00 LT	446.27'	RAMP
306	"C1" 238+39.47	48.00 LT	445.99'	PC
307	"C1" 238+36.85	52.47 LT	445.92'	PT
308	"C1" 238+46.32	69.42 LT	445.92'	RAMP
309	"C1" 238+55.65	61.33 LT	446.13'	PI
310	"C1" 238+60.65	62.02 LT	446.19'	PI
311	"C1" 238+57.26	66.16 LT	446.11'	PI
312	"C1" 238+69.23	87.19 LT	446.09'	PI
313	"C1" 238+44.05	93.97 LT	445.71'	PI
314	"C1" 238+39.69	96.41 LT	446.23'	PT
315	"C1" 238+37.77	103.22 LT	446.30'	PC
316	"C1" 238+37.02	81.43 LT	445.69'	PC
317	"C1" 238+35.37	78.73 LT	445.68'	RAMP
318	"C1" 238+18.47	64.15 LT	445.59'	PCC
319	"C1" 238+11.36	76.53 LT	446.24'	PC
320	"C1" 237+96.07	63.23 LT	446.02'	PT

GRADING PLAN

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

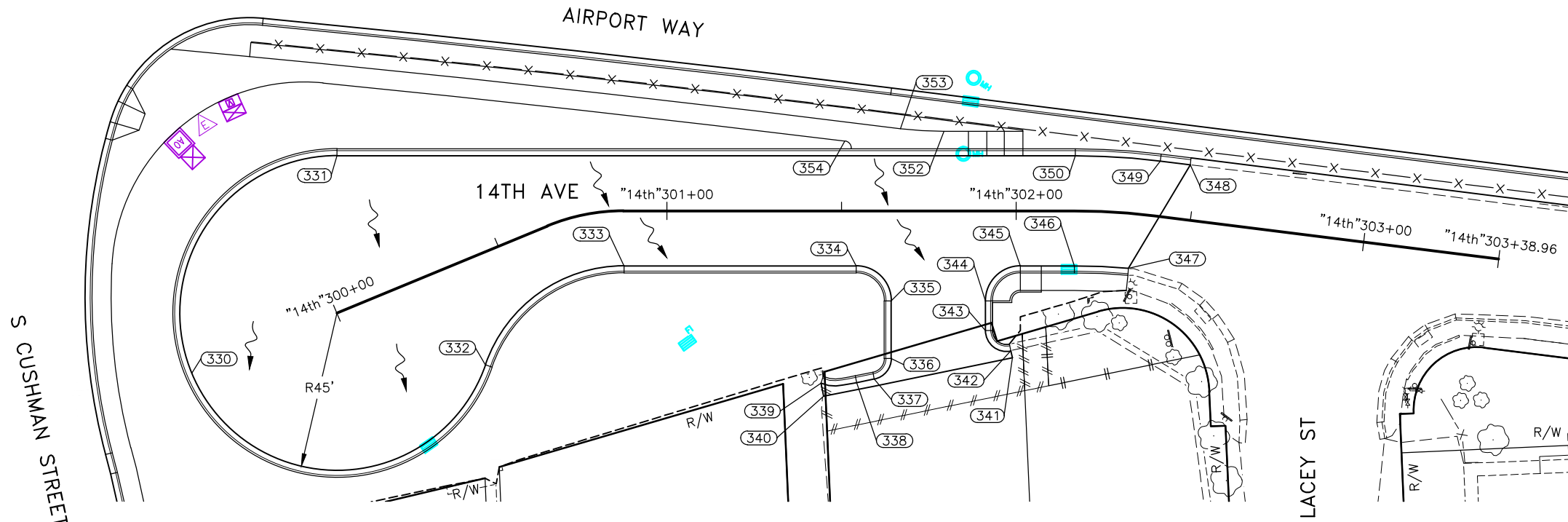
5/29/2020
PLANS-IN-HAND

5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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(Peter Mamrol) K#:- 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	G10	G11



GRADING POINT TABLE				
PT#	STATION	OFFSET	ELEV	DESC
330	"C1" 237+23.09	53.65 RT	443.90'	POC
331	"14th" 300+17.20	41.58 LT	445.27'	PC
332	"14th" 300+33.66	29.87 RT	443.25'	PCC
333	"14th" 300+87.72	15.75 RT	444.36'	PT
334	"14th" 301+54.19	15.75 RT	443.59'	PC
335	"14th" 301+64.19	25.75 RT	443.68'	PT
336	"14th" 301+64.19	42.23 RT	443.77'	PC
337	"14th" 301+59.37	48.11 RT	443.82'	PT
338	"14th" 301+54.33	49.11 RT	443.84'	PI
339	"14th" 301+44.15	49.26 RT	443.90'	PI, TERM TRANS*
340	"14th" 301+44.90	53.03 RT	ME	PI
341	"14th" 301+98.91	42.00 RT	ME	PI
342	"14th" 301+98.48	40.04 RT	ME	PT
343	"14th" 301+91.19	34.18 RT	443.75'	PC
344	"14th" 301+91.19	25.75 RT	443.64'	PC

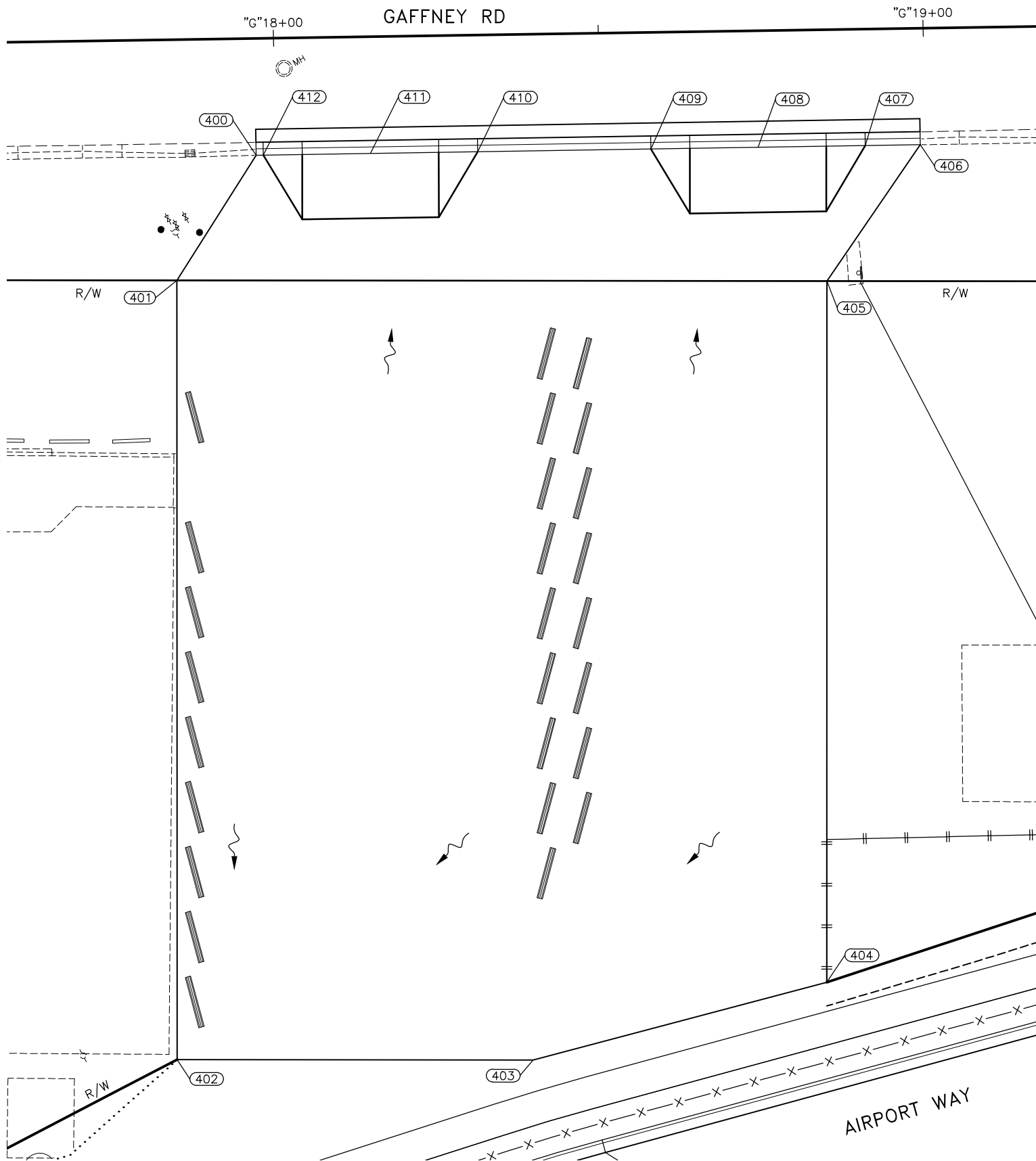
GRADING POINT TABLE				
PT#	STATION	OFFSET	ELEV	DESC
345	"14th" 302+01.19	15.75 RT	443.45'	PT
346	"14th" 302+16.65	15.75 RT	443.40'	PC
347	"14th" 302+33.61	15.74 RT	ME	PT
348	"14th" 302+48.00	15.75 LT	ME	PI
349	"14th" 302+39.38	15.75 LT	443.68'	PT
350	"14th" 302+16.92	15.75 LT	444.03'	PC
352	"14th" 301+79.34	22.75 LT	0.00'	PT
353	"14th" 301+66.88	23.53 LT	0.00'	PC
354	"14th" 301+50.96	19.97 LT	445.01'	PC

GRADING PLAN

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
PLANS-IN-HAND
5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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(Peter Mamrol) KE#: 00385



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	G11	G11

GRADING POINT TABLE				
PT#	STATION	OFFSET	ELEV	DESC
400	"G" 17+97.07	17.98 RT	ME	
401	"G" 17+84.56	37.05 RT	0.00'	
402	"A1" 164+77.46	91.29 LT	0.00'	
403	"A1" 165+29.61	74.38 LT	0.00'	
404	"A1" 165+76.27	71.85 LT	0.00'	
405	"G" 18+84.61	38.69 RT	0.00'	
406	"G" 18+99.29	17.93 RT	ME	
407	"G" 18+90.82	17.93 RT	0.00'	
408	"G" 18+74.32	17.94 RT	0.00'	
409	"G" 18+57.81	17.95 RT	0.00'	
410	"G" 18+31.17	17.96 RT	0.00'	
411	"G" 18+14.67	17.97 RT	0.00'	
412	"G" 17+98.17	17.98 RT	0.00'	

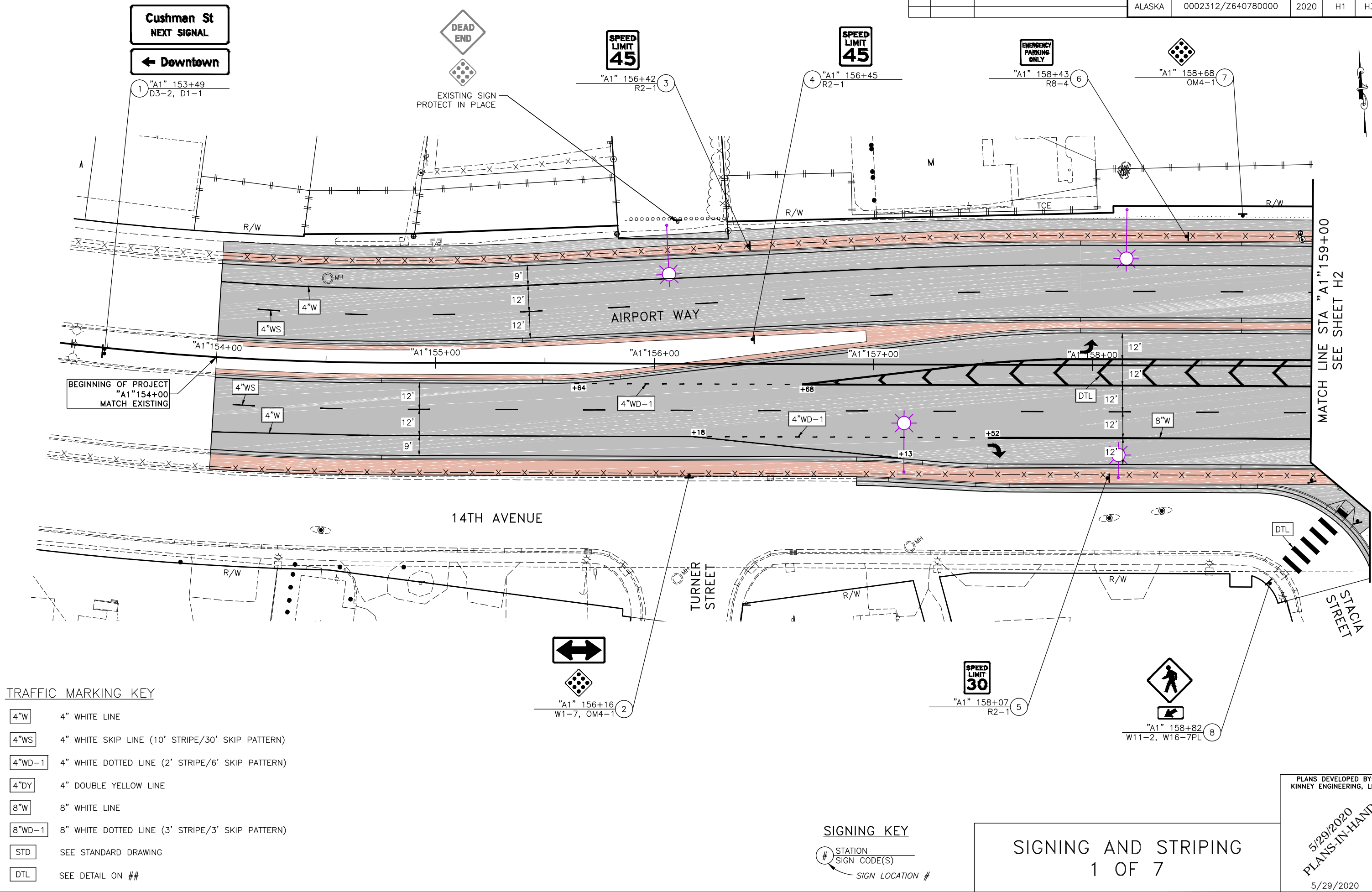
PARKING LOT
GRADING PLAN

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
PLANS-IN-HAND
5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
C:\Users\Bill.Paddock\OneDrive\local\temp\AcPublish\32356\64078_H1-H6_SIGN-STRIPING-H1_Fri_May/29/20 06:18pm

(Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H1	H33



TRAFFIC MARKING KEY

4"W	4" WHITE LINE
4"WS	4" WHITE SKIP LINE (10' STRIPE/30' SKIP PATTERN)
4"WD-1	4" WHITE DOTTED LINE (2' STRIPE/6' SKIP PATTERN)
4"DY	4" DOUBLE YELLOW LINE
8"W	8" WHITE LINE
8"WD-1	8" WHITE DOTTED LINE (3' STRIPE/3' SKIP PATTERN)
STD	SEE STANDARD DRAWING
DTL	SEE DETAIL ON ##

SIGNING KEY

#	STATION	SIGN CODE(S)
		SIGN LOCATION #

SIGNING AND STRIPING
1 OF 7

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

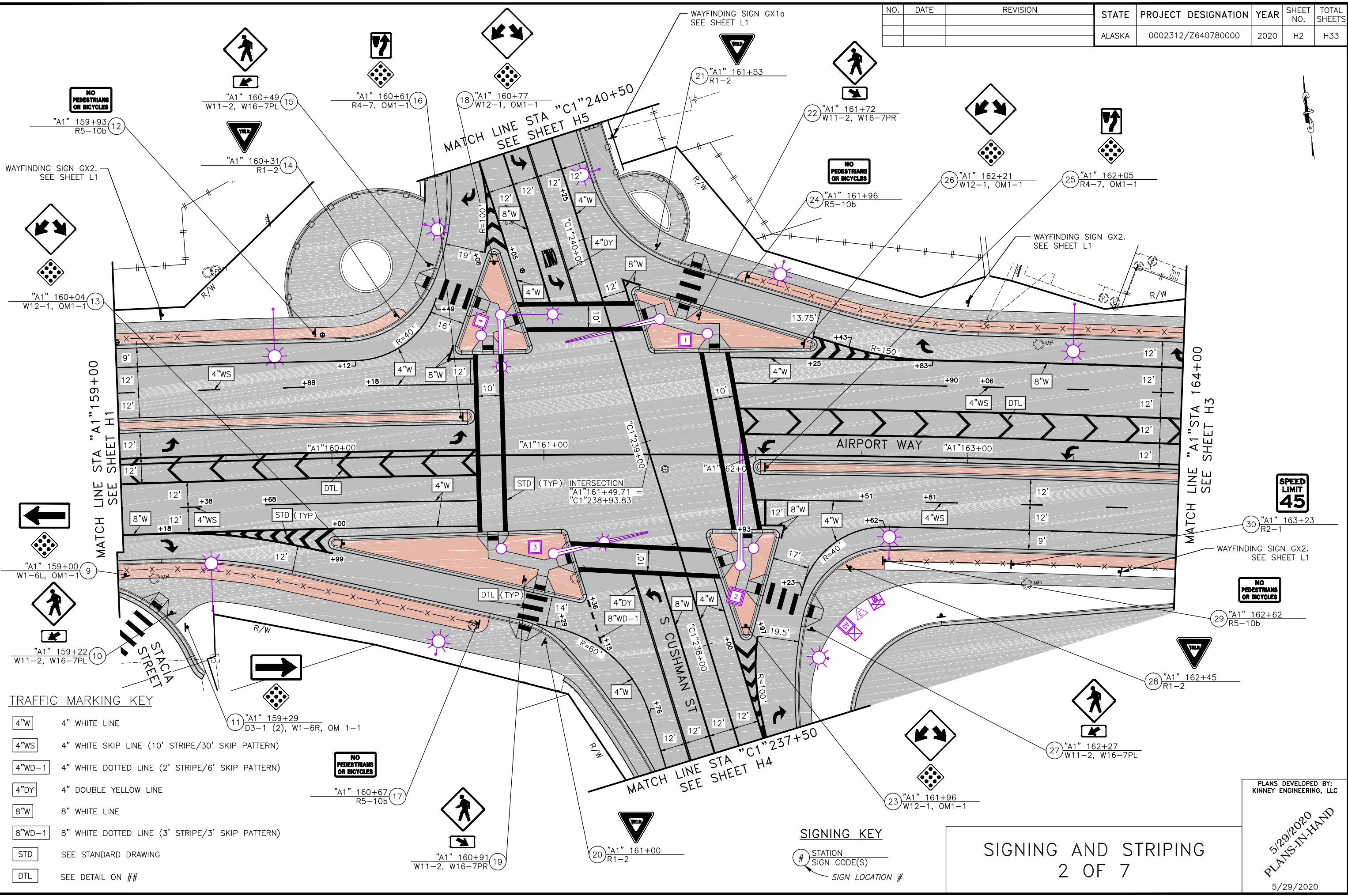
5/29/2020
PLANS-IN-HAND

5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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(Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H2	H33



TRAFFIC MARKING KEY

4"W	4" WHITE LINE
4"WS	4" WHITE SKIP LINE (10' STRIPE/30' SKIP PATTERN)
4"WD-1	4" WHITE DOTTED LINE (2' STRIPE/6' SKIP PATTERN)
4"DY	4" DOUBLE YELLOW LINE
8"W	8" WHITE LINE
8"WD-1	8" WHITE DOTTED LINE (3' STRIPE/3' SKIP PATTERN)
STD	SEE STANDARD DRAWING
DTL	SEE DETAIL ON ##

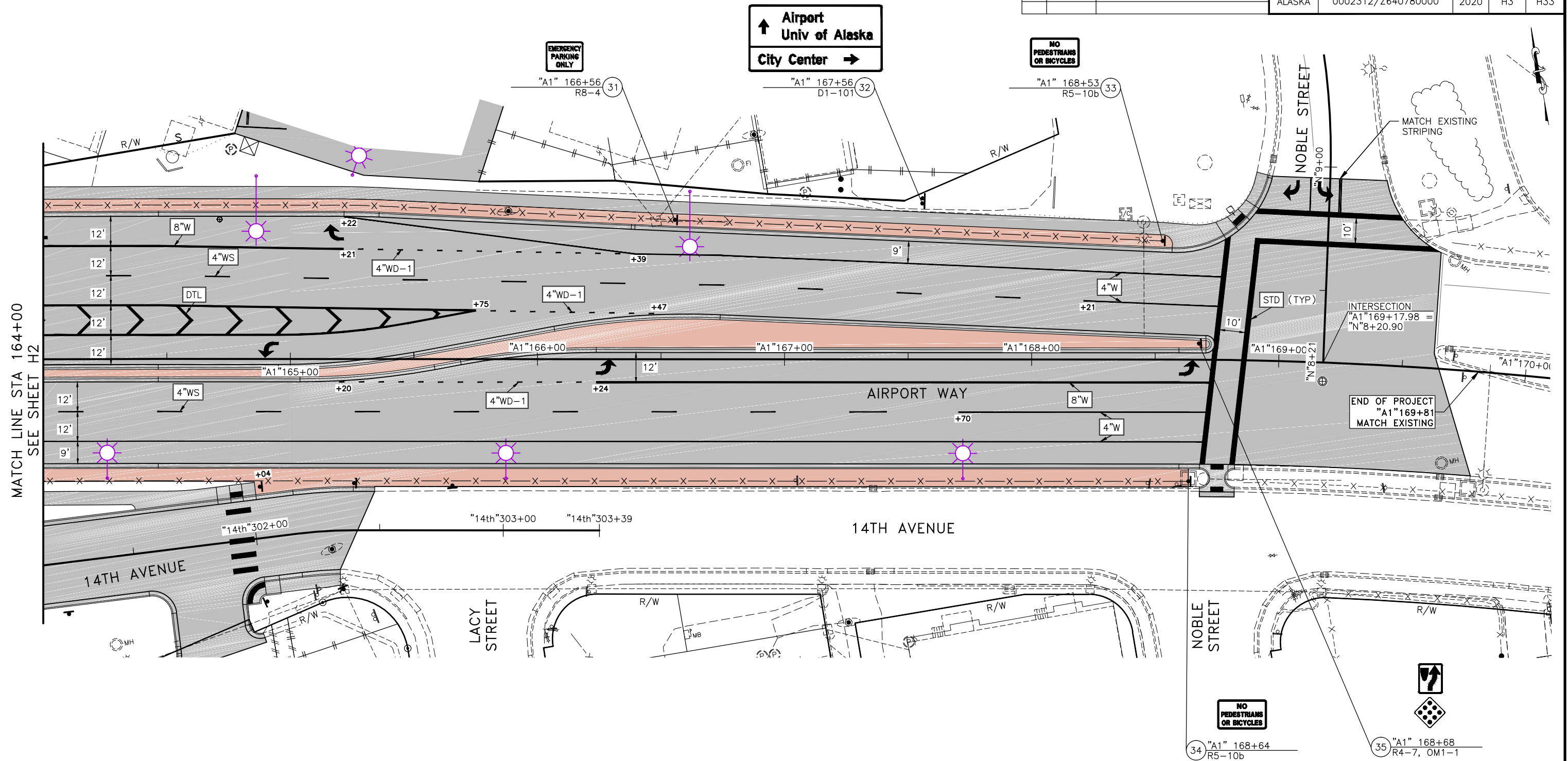
SIGNING KEY

#	STATION
	SIGN CODE(S)
	SIGN LOCATION #

SIGNING AND STRIPING
2 OF 7

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
PLANS-IN-HAND

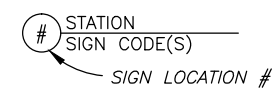
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H3	H33



TRAFFIC MARKING KEY

4"W	4" WHITE LINE
4"WS	4" WHITE SKIP LINE (10' STRIPE/30' SKIP PATTERN)
4"WD-1	4" WHITE DOTTED LINE (2' STRIPE/6' SKIP PATTERN)
4"DY	4" DOUBLE YELLOW LINE
8"W	8" WHITE LINE
8"WD-1	8" WHITE DOTTED LINE (3' STRIPE/3' SKIP PATTERN)
STD	SEE STANDARD DRAWING
DTL	SEE DETAIL ON ##

SIGNING KEY



SIGNING AND STRIPING
3 OF 7

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

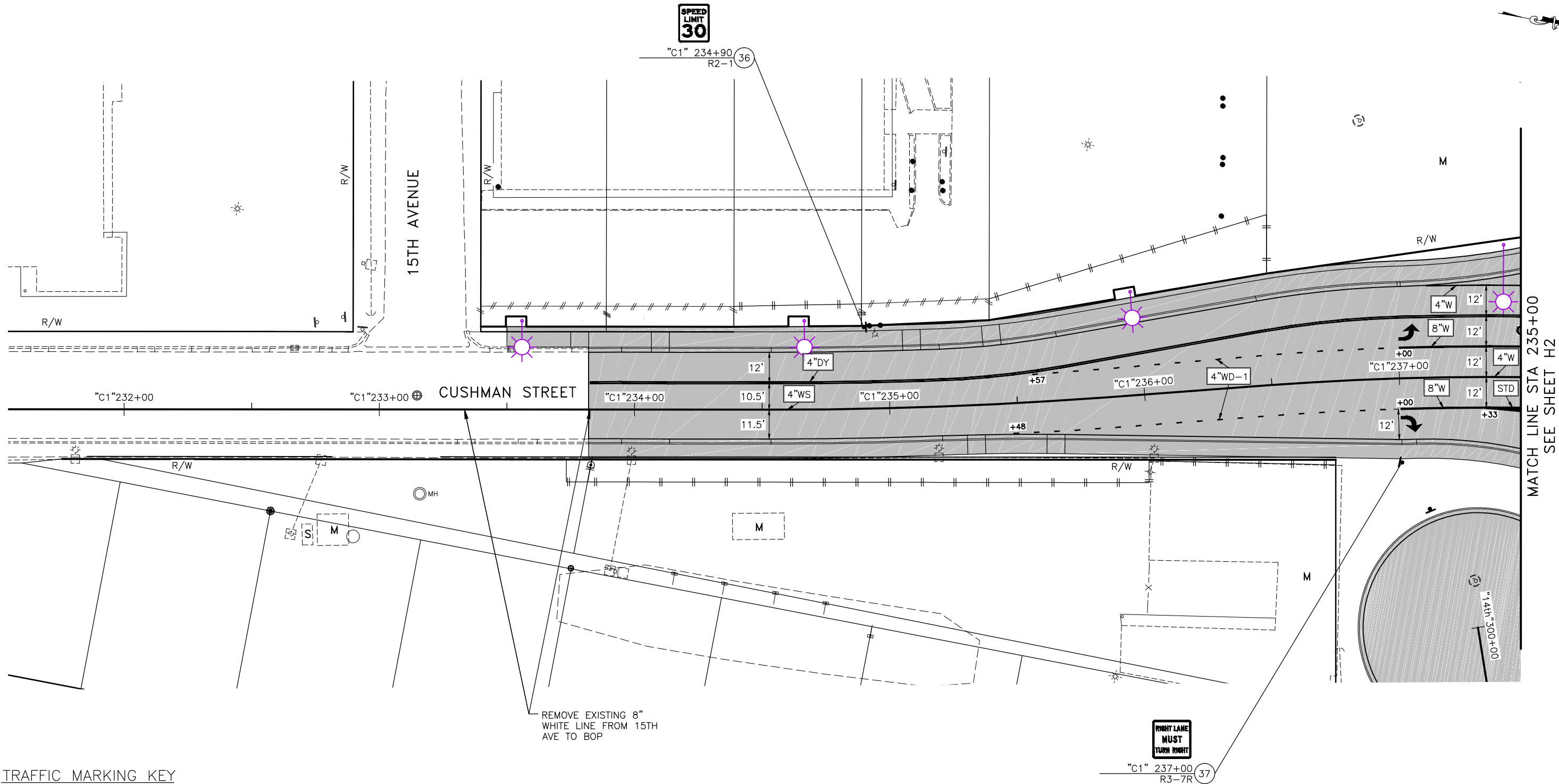
5/29/2020
PLANS-IN-HAND

5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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(Bill Paddock) KE#: 00385

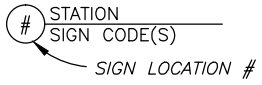
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H4	H33



TRAFFIC MARKING KEY

4"W	4" WHITE LINE
4"WS	4" WHITE SKIP LINE (10' STRIPE/30' SKIP PATTERN)
4"WD-1	4" WHITE DOTTED LINE (2' STRIPE/6' SKIP PATTERN)
4"DY	4" DOUBLE YELLOW LINE
8"W	8" WHITE LINE
8"WD-1	8" WHITE DOTTED LINE (3' STRIPE/3' SKIP PATTERN)
STD	SEE STANDARD DRAWING
DTL	SEE DETAIL ON ##

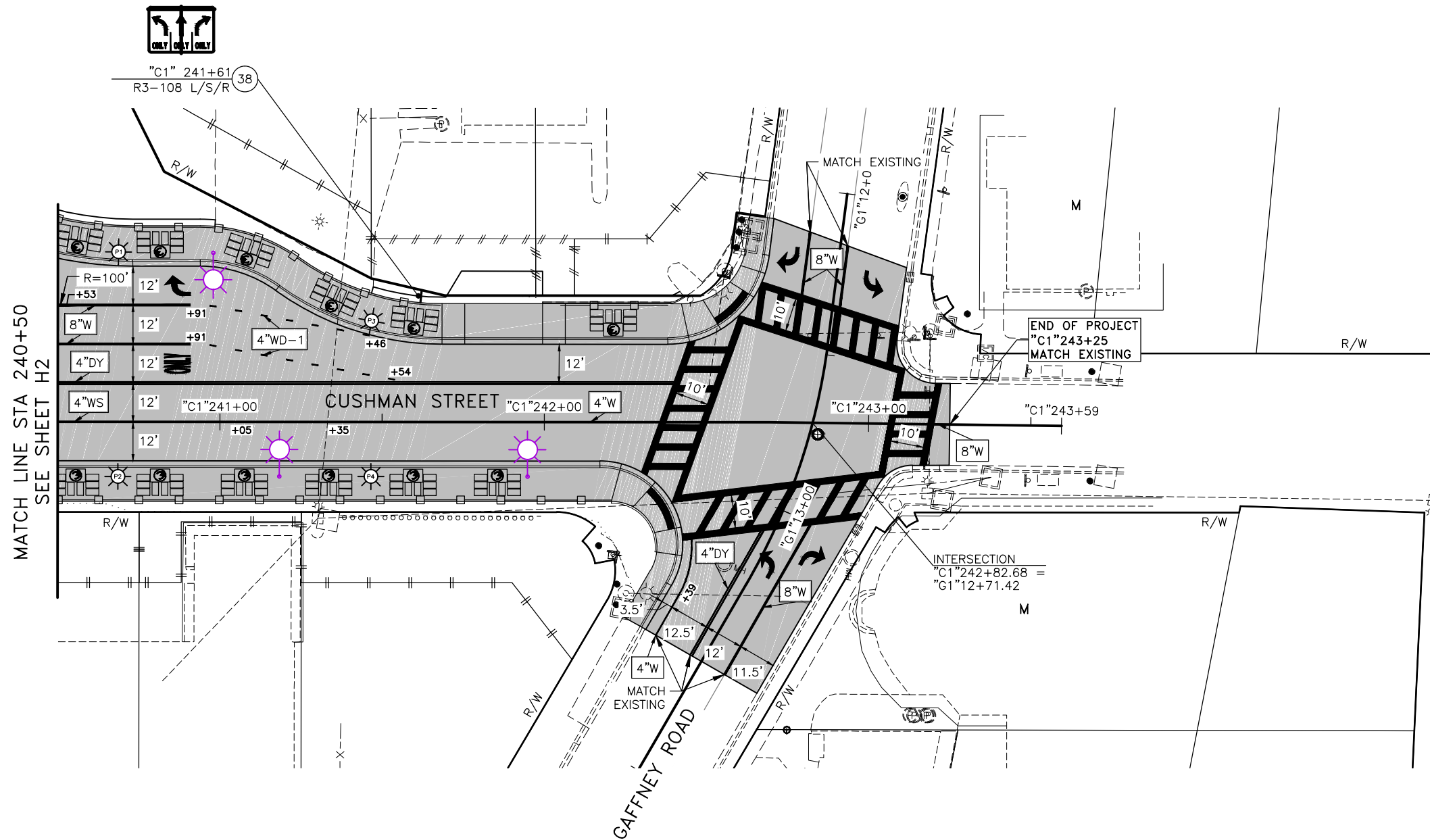
SIGNING KEY



SIGNING AND STRIPING
4 OF 7

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
PLANS-IN-HAND
5/29/2020

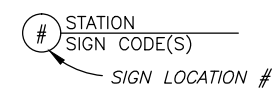
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H5	H33



TRAFFIC MARKING KEY

4"W	4" WHITE LINE
4"WS	4" WHITE SKIP LINE (10' STRIPE/30' SKIP PATTERN)
4"WD-1	4" WHITE DOTTED LINE (2' STRIPE/6' SKIP PATTERN)
4"DY	4" DOUBLE YELLOW LINE
8"W	8" WHITE LINE
8"WD-1	8" WHITE DOTTED LINE (3' STRIPE/3' SKIP PATTERN)
STD	SEE STANDARD DRAWING
DTL	SEE DETAIL ON ##

SIGNING KEY



SIGNING AND STRIPING
5 OF 7

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

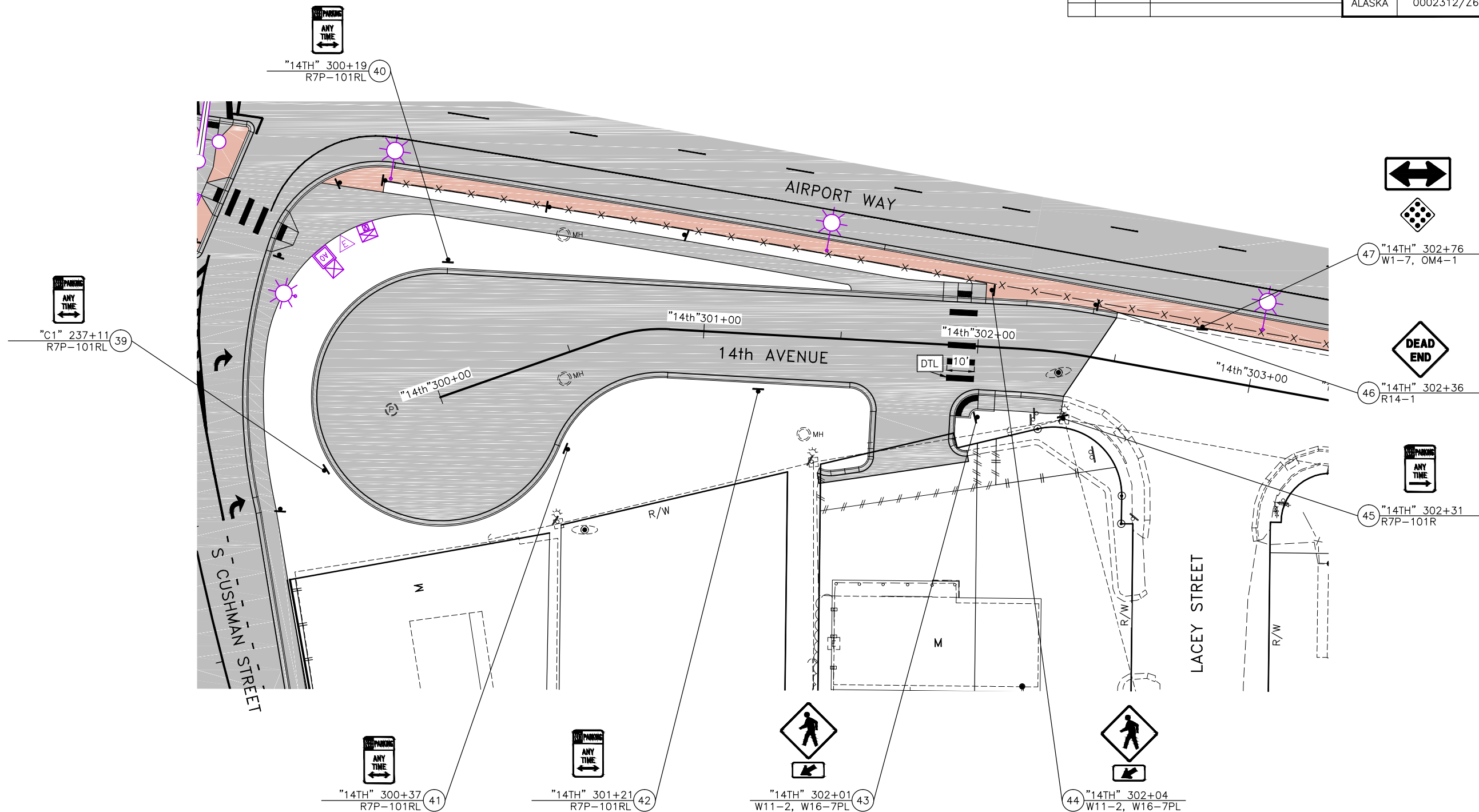
5/29/2020
PLANS-IN-HAND

5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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(Bill Paddock) KE#: 00385

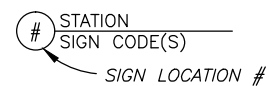
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H6	H33



TRAFFIC MARKING KEY

4"W	4" WHITE LINE
4"WS	4" WHITE SKIP LINE (10' STRIPE/30' SKIP PATTERN)
4"WD-1	4" WHITE DOTTED LINE (2' STRIPE/6' SKIP PATTERN)
4"DY	4" DOUBLE YELLOW LINE
8"W	8" WHITE LINE
8"WD-1	8" WHITE DOTTED LINE (3' STRIPE/3' SKIP PATTERN)
STD	SEE STANDARD DRAWING
DTL	SEE DETAIL ON ##

SIGNING KEY



SIGNING AND STRIPING
6 OF 7

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

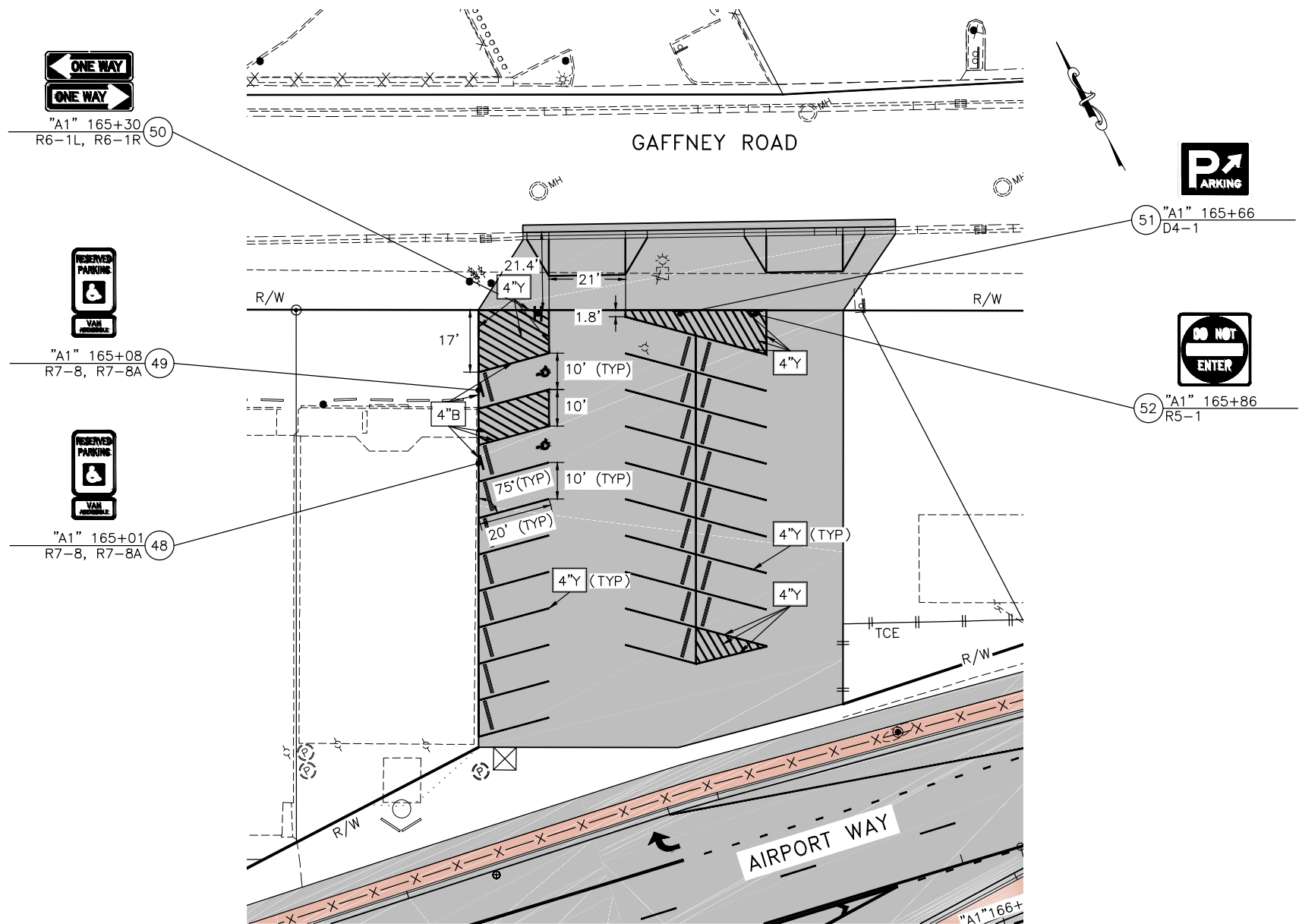
5/29/2020
PLANS-IN-HAND

5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\c\Sheets\64078_H7_SIGN-STRIPE-PRKG-H7 Fri, May/29/20 06:23pm

(Gordon Dufseth) KE#: 00385

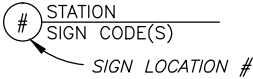
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H7	H33



TRAFFIC MARKING KEY

- 4"Y 4" YELLOW LINE
- 4"B 4" BLUE LINE

SIGNING KEY



PARKING LOT
SIGNING AND STRIPING
7 OF 7

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
PLANS-IN-HAND

SIGNING SUMMARY															
LOC. NO.	STATION	LOCATION		ASDS CODE	LEGEND	SIZE H X V (INCHES)	BRACING/ FRAMING		AREA (SQ.FT.)	MTG. HGT. (FT.)	DIR.	POST			REMARKS
		LT.	RT.				BRACED	FRAMED				TYPE	SIZE (INCHES)	NO.	
1	"A1" 153+49		X	D3-2 D1-1	CUSHMAN ST (LEFT ARROW) DOWNTOWN	90 X 36 90 X 24		X X	22.50 15.00		W W				INSTALL ON EXISTING POSTS
2	"A1" 156+16		X	W1-7 OM4-1	TWO DIRECTION LARGE ARROW OBJECT MARKER, TYPE 4	48 X 24 18 X 18	X		8.00 2.25		S S	PST	2.5	1	
3	"A1" 156+42	X		R2-1	SPEED LIMIT 45	30 X 36	X		7.50		E	PST	2.5	1	
4	"A1" 156+45	X		R2-1	SPEED LIMIT 45	30 X 36	X		7.50		E	PST	2.5	1	
5	"A1" 158+07		X	R2-1	SPEED LIMIT 30	24 X 30			5.00		E	PST	2.5	1	
6	"A1" 158+43	X		R8-4	EMERGENCY PARKING ONLY	30 X 24	X		5.00		E	PST	2.5	1	
7	"A1" 158+68	X		OM4-1	OBJECT MARKER, TYPE 4	18 X 18			2.25		N	PST	2.5	1	
8	"A1" 158+82		X	W11-2 W16-7PL	PEDESTRIAN DOWNWARD DIAGONAL ARROW LEFT	30 X 30 24 X 12	X		6.25 2.00		NW NW	PST	2.5	1	
9	"A1" 159+00		X	W1-6L OM1-1	LARGE ARROW LEFT OBJECT MARKER, TYPE 1	48 X 24 18 X 18	X		8.00 2.25		S S	PST	2.5	1	
10	"A1" 159+22		X	W11-2 W16-7PL	PEDESTRIAN DOWNWARD DIAGONAL ARROW LEFT	30 X 30 24 X 12	X		6.25 2.00		S S	PST	2.5	1	
11	"A1" 159+29		X	SPECIAL 1 (2) SPECIAL 1 (2) W1-6R OM1-1	14TH AVE STACIA ST LARGE ARROW RIGHT OBJECT MARKER, TYPE 1	30 X 8 30 X 8 48 X 24 18 X 18			3.33 3.33 8.00 2.25		S W W W	PST	2.5	1	
12	"A1" 159+93	X		R5-10b	NO PEDESTRIAN OR BICYCLE	30 X 18	X		3.75		SE	PST	2.5	1	
13	"A1" 160+04		X	W12-1 OM1-1	DOUBLE ARROW OBJECT MARKER, TYPE 1	36 X 36 18 X 18	X		9.00 2.25		E E	PST	2.5	1	
14	"A1" 160+31	X		R1-2	YIELD	36 X 36	X		9.00		SE				INSTALL ON FENCE POST
15	"A1" 160+47	X		W11-2 W16-7PL	PEDESTRIAN DOWNWARD DIAGONAL ARROW LEFT	30 X 30 24 X 12	X		6.25 2.00		NE NE	PST	2.5	1	
16	"A1" 160+61	X		R4-7 OM1-1	KEEP RIGHT OBJECT MARKER, TYPE 1	24 X 30 18 X 18			5.00 2.25		W W	PST	2.5	1	
17	"A1" 160+67		X	R5-10b	NO PEDESTRIAN OR BICYCLE	30 X 18	X		3.75		SE				INSTALL ON FENCE POST
18	"A1" 160+77	X		W12-1 OM1-1	DOUBLE ARROW OBJECT MARKER, TYPE 1	36 X 36 18 X 18	X		9.00 2.25		E E	PST	2.5	1	
19	"A1" 160+91		X	W11-2 W16-7PR	PEDESTRIAN DOWNWARD DIAGONAL ARROW RIGHT	30 X 30 24 X 12	X		6.25 2.00		NW NW	PST	2.5	1	
20	"A1" 161+00		X	R1-2	YIELD	36 X 36	X		9.00		NW	PST	2.5	1	
21	"A1" 161+53	X		R1-2	YIELD	36 X 36	X		9.00		SE	PST	2.5	1	
22	"A1" 161+72	X		W11-2 W16-7PR	PEDESTRIAN DOWNWARD DIAGONAL ARROW RIGHT	30 X 30 24 X 12	X		6.25 2.00		SE SE	PST	2.5	1	
23	"A1" 161+96		X	W12-1 OM1-1	DOUBLE ARROW OBJECT MARKER, TYPE 1	36 X 36 18 X 18	X		9.00 2.25		E E	PST	2.5	1	

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H8	H33

SIGNING NOTES

- REMOVE AND DISPOSE OF ALL EXISTING SIGNS AND SIGN POST FOUNDATIONS WITHIN THE PROJECT LIMITS, EXCEPT SIGNS DESIGNATED FOR REINSTALLATION, SALVAGE, OR OTHERWISE NOTED.
- MOUNT SIGNS PER STANDARD DRAWING S-05.01. SIGNS THAT PROJECT OVER OR WITHIN 2 FEET OF THE SIDEWALK AND PATHWAYS SHALL BE MOUNTED TO A HEIGHT OF 8 FEET.
- DETERMINE POST LENGTHS IN THE FIELD. DO NOT EXTEND POSTS ABOVE TOP OF SIGN.
- UNLESS OTHERWISE NOTED, INSTALL PST POSTS WITH SLEEVE TYPE CONCRETE FOUNDATION PER STANDARD DRAWING S-30.04. ATTACH THE SIGN POST USING GALVANIZED 3/8" DIA. BOLT, NUT, SPLIT LOCK WASHER AND TWO FLAT WASHERS.
- INSTALL "TUBE POST SIGN BRACING" AS SHOWN ON STANDARD DRAWING S-01.01 ON ALL SIGNS MOUNTED ON A SINGLE PST POST AND HAVING A HORIZONTAL DIMENSION OF 30 INCHES OR GREATER, EXCEPT STREET NAME SIGNS. INSTALL GALVANIZED SPLIT LOCK WASHERS ON ALL 3/8" BOLTS. STAINLESS STEEL FASTENER HARDWARE MAY BE USED INSTEAD OF GALVANIZED. 1/4" X 1 1/2" ALUMINUM ALLOY 6061-T6 BAR MAY ALSO BE USED TO FABRICATE SIGN BRACES.
- ATTACH ALL SIGNS TO THEIR SUPPORTS WITH 3/8" DIA. BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO POSTS WITH ALUMINUM DRIVE RIVETS. WIND WASHERS ARE NOT REQUIRED WITH DRIVE RIVETS. INCLUDE SPLIT LOCK WASHERS WHEN BOLTS ARE USED.
- ALL FASTENER HARDWARE SHALL MEET THE REQUIREMENTS OF THE "FASTENER SPECIFICATION TABLE" ON SHEET H11.
- SIGNS INSTALLED ON LIGHT POLES MAY REQUIRE TEMPORARY INSTALLATION ON 2-1/2" PST POST UNTIL LIGHT POLES ARE IN PLACE. THIS WORK IS SUBSIDIARY TO PAY ITEM 615.0001.0000.
- WHERE TWO DIFFERENT STREET NAME SIGNS ARE TO BE LOCATED ON THE SAME POST, INSTALL THE CROSS-STREET PANEL IN THE LOWER POSITION. SEE SHEET H12 FOR DETAIL.
- FOR TWO SEPARATE SINGLE SIDED STREET NAME SIGN PANELS PROVIDE SIGN BRACING AS INDICATED ON SHEET H12 AND STANDARD DRAWING S-01.01.
- MAINTAIN EXISTING SIGNS UNTIL NEW SIGNS ARE INSTALLED. DO NOT LEAVE DUPLICATE OR CONFLICTING SIGNING UP AT ANY TIME.
- LOCATE AND PROTECT ALL NEW AND EXISTING UNDERGROUND UTILITIES PRIOR TO INSTALLING SIGN POSTS. NOT ALL UTILITIES MAY BE SHOWN ON THE SIGNING AND STRIPING PLANS. SEE OTHER PROJECT PLAN SHEETS AND AS-BUILT DRAWINGS FOR ADDITIONAL INFORMATION.
- CLEARING AS DIRECTED BY THE ENGINEER MAY BE REQUIRED TO ENSURE ADEQUATE VISIBILITY OF SIGNS. THIS WORK IS SUBSIDIARY TO PAY ITEM 615.0001.0000.
- PROVIDE WEATHER TIGHT CAPS ON ALL TUBE POSTS, EXCEPT PERFORATED STEEL TUBES.
- PROVIDE FRANGIBLE COUPLING SYSTEMS IN ACCORDANCE WITH STANDARD DRAWING S-31.01.
- HINGED JOINTS WITH FRANGIBLE FUSE PLATE ARE REQUIRED ON ALL MULTIPLE POST SIGNS WITH FRANGIBLE COUPLING SYSTEMS. THE HINGE LOCATION ON ALL POSTS SHALL BE THE SAME DISTANCE BELOW THE SIGNS, INSTEAD OF THE 6 INCH MINIMUM SHOWN ON STANDARD DRAWING S-31.01. SEE MANUFACTURER'S SPECIFICATION FOR HINGE LOCATION BELOW SIGN.
- ADJUST SIGN LOCATIONS AT THE DIRECTION OF THE ENGINEER.
- USE SERIES C LETTERS FOR D3-100 SERIES SIGNS UNLESS OTHERWISE NOTED. USE 4.5-INCH FOR DIMENSION "E" FOR 12-INCH D3-100 SIGNS. THE LETTERING INDICATING THE TYPE OF STREET (SUCH AS St, Ave, OR Rd) SHALL BE UPPER CASE AND LOWER CASE. THIS MODIFIES THE ASDS.
- SEE SIGNAL SHEETS FOR SIGNS MOUNTED ON MAST ARMS.

SIGNING SUMMARY
1 OF 3

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373CERT. OF AUTH. NO. AECL 1102
Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\C\Sheets\64078_H8-H10_SIGN_SUMM-H9 Fri, May/29/20 06:25pm
(Gordon Dufseth) K#:# 00385

SIGNING SUMMARY															
LOC. NO.	STATION	LOCATION		ASDS CODE	LEGEND	SIZE H X V (INCHES)		BRACING/ FRAMING		AREA (SQ.FT.)	MTG. HGT. (FT.)	DIR.	POST		
		LT.	RT.					BRACED	FRAMED				TYPE	SIZE (INCHES)	NO.
24	"A1" 161+96	X		R5-10b	NO PEDESTRIAN OR BICYCLE	30 X 18		X		3.75		NW	PST	2.5	1
25	"A1" 162+05		X	R4-7 OM1-1	KEEP RIGHT OBJECT MARKER, TYPE 1	24 X 30 18 X 18				5.00 2.25		W W	PST	2.5	1
26	"A1" 162+21	X		W12-1 OM1-1	DOUBLE ARROW OBJECT MARKER, TYPE 1	36 X 36 18 X 18	X			9.00 2.25		E E	PST	2.5	1
27	"A1" 162+27		X	W11-2 W16-7PL	PEDESTRIAN DOWNWARD DIAGONAL ARROW LEFT	30 X 30 24 X 12	X			6.25 2.00		SW SW	PST	2.5	1
28	"A1" 162+45		X	R1-2	YIELD	36 X 36	X			9.00		SW	PST	2.5	1
29	"A1" 162+62		X	R5-10b	NO PEDESTRIAN OR BICYCLE	30 X 18	X			3.75		NW			INSTALL ON FENCE POST
30	"A1" 163+23		X	R2-1	SPEED LIMIT 45	30 X 36	X			7.50		W	PST	2.5	1
31	"A1" 166+56	X		R8-4	EMERGENCY PARKING ONLY	30 X 24	X			5.00		E	PST	2.5	1
32	"A1" 167+56	X		D1-101	(UP ARROW) AIRPORT UNIV OF ALASKA CITY CENTER (RIGHT ARROW)	108 X 54		X		40.50		SE	TS	3	2
33	"A1" 168+53		X	R5-10b	NO PEDESTRIAN OR BICYCLE	30 X 18	X			3.75		E			INSTALL ON FENCE POST
34	"A1" 168+64	X		R5-10b	NO PEDESTRIAN OR BICYCLE	30 X 18	X			3.75		E			INSTALL ON FENCE POST
35	"A1" 168+68	X		R4-7 OM1-1	KEEP RIGHT OBJECT MARKER, TYPE 1	24 X 30 18 X 18				5.00 2.25		E E	PST	2.5	1
36	"C1" 234+90	X		R2-1	SPEED LIMIT 30	24 X 30				5.00		N	PST	2.5	1
37	"C1" 237+00		X	R3-7R	RIGHT LANE MUST TURN RIGHT	30 X 30	X			6.25		S	PST	2.5	1
38	"C1" 241+61	X		R3-108L/S/R	ADVANCE INTERSECTION LANE CONTROL	48 X 30	X			10.00		N	PST	2.5	1
39	"C1" 237+11		X	R7P-101RL	NO PARKING ANYTIME RIGHT/LEFT	12 X 18				1.50		SE	PST	2.5	1
40	"14TH" 300+19	X		R7P-101RL	NO PARKING ANYTIME RIGHT/LEFT	12 X 18				1.50		SW	PST	2.5	1
41	"14TH" 300+37		X	R7P-101RL	NO PARKING ANYTIME RIGHT/LEFT	12 X 18				1.50		N	PST	2.5	1
42	"14TH" 301+21		X	R7P-101RL	NO PARKING ANYTIME RIGHT/LEFT	12 X 18				1.50		N	PST	2.5	1
43	"14TH" 302+01		X	W11-2 W16-7PL	PEDESTRIAN DOWNWARD DIAGONAL ARROW LEFT	30 X 30 24 X 12	X			6.25 2.00		W W	PST	2.5	1
44	"14TH" 302+04	X		W11-2 W16-7PL	PEDESTRIAN DOWNWARD DIAGONAL ARROW LEFT	30 X 30 24 X 12	X			6.25 2.00		E E	PST	2.5	1
45	"14TH" 302+31		X	R7P-101R	NO PARKING ANYTIME RIGHT	12 X 18				1.50		N			INSTALL ON EXISTING LIGHT POLE
46	"14TH" 302+36	X		R14-1	DEAD END	24 X 30				5.00		E	PST	2.5	1
47	"14TH" 302+76	X		W1-7 OM4-1	TWO DIRECTION LARGE ARROW OBJECT MARKER, TYPE 4	48 X 24 18 X 18	X			8.00 2.25		S S	PST	2.5	1

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H9	H33

SIGNING SUMMARY
2 OF 3

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND

5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
Z:\PROJECTS\DOTPF\385_airport & cushman reconstruction\DWGS\C\Sheets\64078_H11_SIGN_SLVG-H11_Fri_May/29/20 06:26pm (Gordon Dufseth) K/E#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H11	H33

SALVAGE SIGN SUMMARY					
ALIGNMENT	STATION	CL REF	ASDS CODE	LEGEND	REMARKS
A1	156+31	3' LT	D3-1	CUSHMAN ST	2 POSTS
			D1-1L	(LEFT ARROW) DOWNTOWN	
A1	156+42	CL	R2-1	SPEED LIMIT 45	ON LIGHT POLE
A1	156+43	46' LT	R2-1	SPEED LIMIT 45	
A1	158+07	51' RT	R2-1	SPEED LIMIT 30	
A1	158+68	57' LT	OM1-1	OBJECT MARKER, TYPE 1	
A1	159+07	57' RT	W1-6L	LARGE ARROW (LEFT)	
			OM1-1	OBJECT MARKER, TYPE 1	
A1	159+27	67' RT	D3-1	14TH AVE	
			D3-1	STACIA ST	
			W1-6R	LARGE ARROW (RIGHT)	
			OM1-1	OBJECT MARKER, TYPE 1	
A1	160+26	46' LT	R8-4	EMERGENCY PARKING ONLY	
A1	160+74	55' LT	R10-100	LEFT TURN ONLY YIELD ON GREEN	SIGNAL POLE NW
			D3-1B	CUSHMAN ST	
A1	160+77	61' LT	R6-1R	ONE WAY	
			R6-1L	ONE WAY	
A1	160+81	49' RT	R9-3A	NO PED CROSSING	ON LIGHT POLE
			R5-6	NO BICYCLE	
A1	160+82	64' LT	R10-3B	PUSH BUTTON EDUCATIONAL	PEDESTRIAN SIGNAL POLE NW
			R10-3B	PUSH BUTTON EDUCATIONAL	
A1	161+13	72' LT	R3-6R	OPTIONAL MOVEMENT LANE CONTROL (AHEAD, RIGHT)	ON SPAN WIRE
A1	161+24	71' LT	R3-7L	MANDATORY MOVEMENT LANE CONTROL (TURN LEFT)	ON SPAN WIRE
A1	161+38	60' RT	R10-12	LEFT TURN MUST YIELD ON GREEN	SIGNAL POLE SW
			R10-3B	PUSH BUTTON EDUCATIONAL	
			R10-3B	PUSH BUTTON EDUCATIONAL	
			D3-1B	AIRPORT WAY	
A1	161+68	66' LT	R10-12	LEFT TURN MUST YIELD ON GREEN	SIGNAL POLE NE
			D3-1B	AIRPORT WAY	
			R3-6R	OPTIONAL MOVEMENT LANE CONTROL (AHEAD, RIGHT)	
			R3-6L	OPTIONAL MOVEMENT LANE CONTROL (AHEAD, LEFT)	
A1	161+77	57' LT	R10-3B	PUSH BUTTON EDUCATIONAL	PEDESTRIAN SIGNAL POLE NE
			R10-3B	PUSH BUTTON EDUCATIONAL	
A1	162+21	59' RT	R10-3B	PUSH BUTTON EDUCATIONAL	PEDESTRIAN SIGNAL POLE SE
			R10-3B	PUSH BUTTON EDUCATIONAL	
A1	162+32	49' RT	D3-1B	CUSHMAN ST	SIGNAL POLE SE
			R6-1R	ONE WAY	
			R6-1L	ONE WAY	
			R10-100	LEFT TURN ONLY YIELD ON GREEN SIGN	
A1	162+34	47' LT	R9-3A	NO PED CROSSING	
			R5-6	NO BICYCLE	
A1	162+59	50' RT	R9-3A	NO PED CROSSING	
			R5-6	NO BICYCLE	
A1	163+86	48' RT	R2-1	SPEED LIMIT 45	ON LIGHT POLE
A1	164+03	46' LT	D1-101 (D1-3-2)	(ARROW AHEAD) AIRPORT, UNIV OF ALASKA / DOWNTOWN (ARROW RIGHT)	2 POSTS
A1	165+45	49' RT	D9-10	TOURIST INFORMATION	ON LIGHT POLE
			D9-301L	DIRECTIONAL ARROW (SYMBOL)	
A1	167+04	49' RT	R2-1	SPEED LIMIT 45	ON LIGHT POLE
A1	167+79	47' LT	R8-4	EMERGENCY PARKING ONLY	
A1	168+39	47' LT	R9-3A	NO PED CROSSING	
			R5-6	NO BICYCLE	

SALVAGE SIGN SUMMARY					
ALIGNMENT	STATION	CL REF	ASDS CODE	LEGEND	REMARKS
A1	168+47	50' RT	R9-3A	NO PED CROSSING	
			R5-6	NO BICYCLE	
C1	234+91	30' LT	R2-1	SPEED LIMIT 30	
C1	236+67	31' RT	R10-7	DO NOT BLOCK INTERSECTION	
C1	237+24	47' RT	D3-101	14TH AVE	WITH SPECIAL DETAILS 2 SIGNS
			D3-101	S CUSHMAN ST	
			R1-1	STOP	
C1	242+21	41' RT	R10-3B	PUSH BUTTON EDUCATIONAL	PEDESTRIAN SIGNAL POLE
14TH	300+25	57' RT	R7P-101R	NO PARKING ANY TIME (RIGHT ARROW)	ON LIGHT POLE
14TH	301+42	45' RT	R7P-101RL	NO PARKING ANY TIME (RIGHT & LEFT ARROW)	ON LIGHT POLE
14TH	302+24	23' RT	R2-1	SPEED LIMIT 20	
14TH	302+35	24' RT	R7P-101RL	NO PARKING ANY TIME (RIGHT & LEFT ARROW)	ON LIGHT POLE
14TH	302+79	18' LT	W1-7	TWO DIRECTION LARGE ARROW	
			OM4-1	OBJECT MARKER, TYPE 4	

SIGNING NOTES

1. DELIVER SALVAGED SIGN PANELS, NOT IDENTIFIED FOR REUSE IN THE SIGNING SUMMARY, TO THE DOT&PF FARIBANKS MAINTENANCE YARD LOCATED AT 2301 PEGER ROAD.

CONTACT DANIEL SCHACHER (907) 451-5276 TO ARRANGE FOR DELIVERY.
2. SALVAGED SIGNS WILL BE PAID PER EACH SIGN PANEL DELIVERED IN ACCEPTABLE CONDITION.

SIGN SALVAGE SUMMARY

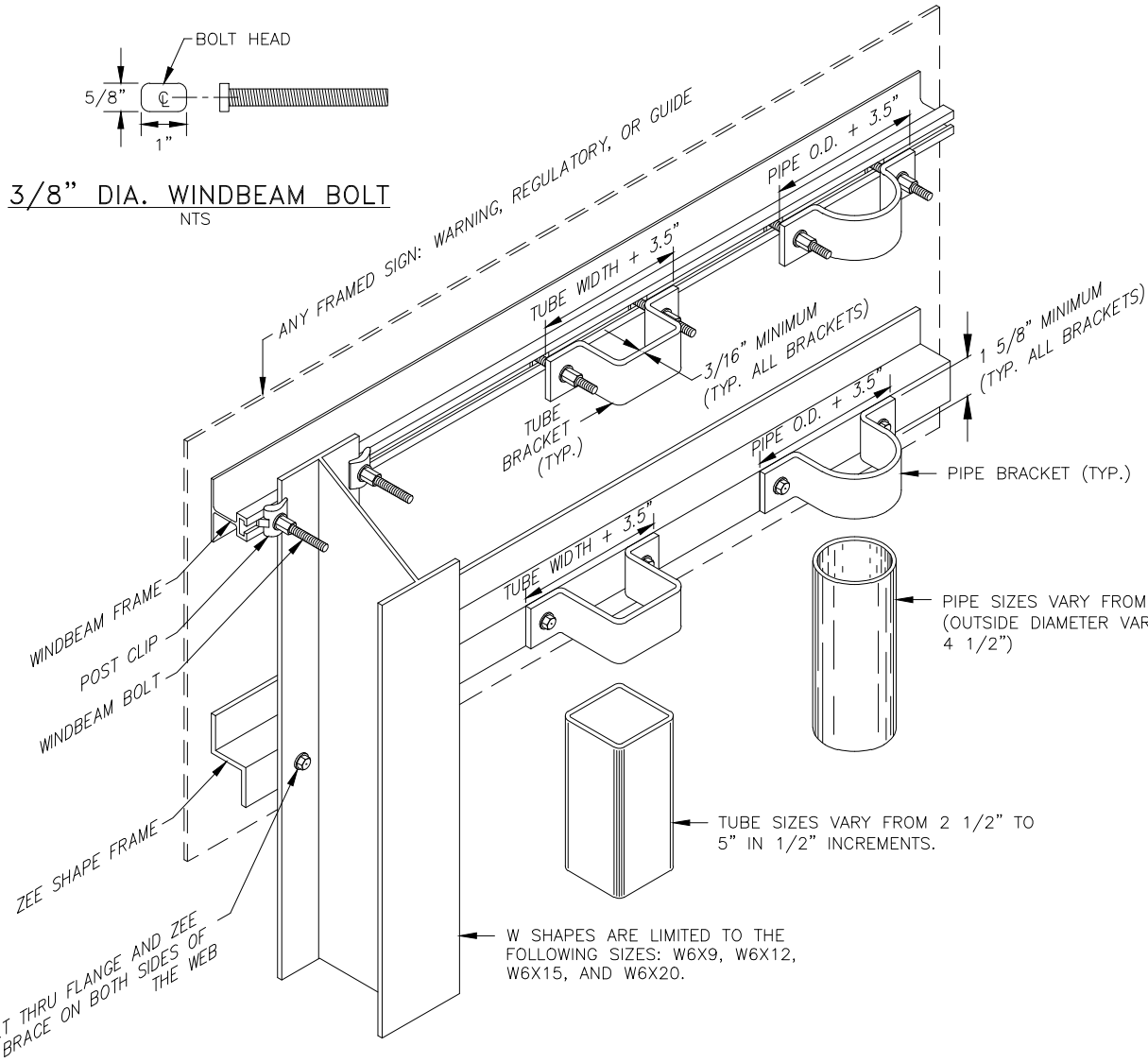
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
PLANS-IN-HAND
5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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(Gordon Dufseth) K&E# 00385

FASTENER SPECIFICATION TABLE		
FASTENERS	STEEL	STAINLESS STEEL
BOLTS	ASTM A 307	ASTM F 593
NUTS	ASTM A 563	ASTM F 594
WASHERS	ASTM F 844	ASTM A 480

THESE SPECIFICATIONS APPLY TO ALL SIGN FASTENER HARDWARE ON THE PROJECT.

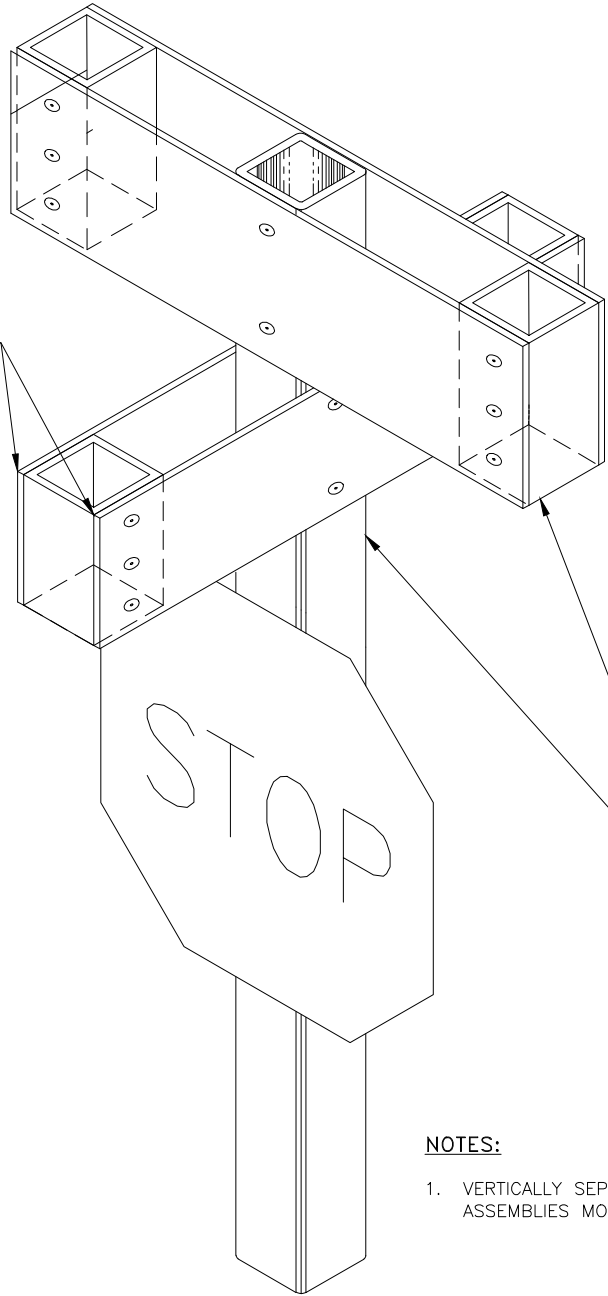


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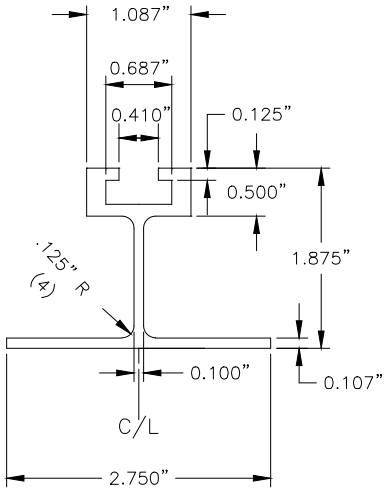
- ATTACH FRAMED SIGNS TO POSTS WHEREVER THE FRAMES CROSS THE POSTS. AT EACH CROSSING, ATTACH THE SIGN USING TWO POST CLIPS ON W-SHAPE POSTS, A U-SHAPED BRACKET ON PIPES OR A BRACKET WITH SQUARE CORNERS ON TUBES.
- THE TUBE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.
- THE BRACKET DETAILS SHOWN INDICATE GENERAL DESIGNS ONLY. DESIGNS MAY VARY BY MANUFACTURER.
- ALUMINUM ALLOY 6061-T6 SHALL BE USED FOR ZEE SHAPE FRAMING AND RIVETS.

FRAMED SIGN ATTACHMENT BRACKETS
NTS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H12	H33



STREET NAME SIGN DETAIL
NTS



NOTES:

- ALUMINUM ALLOY 6061-T6 SHALL BE USED FOR EXTRUDED WINDBEAM AND RIVETS.
- ATTACH SIGNS TO WINDBEAM WITH 3/6" RIVETS AT 4" STAGGERED SPACING.

EXTRUDED ALUMINUM WINDBEAM
NTS

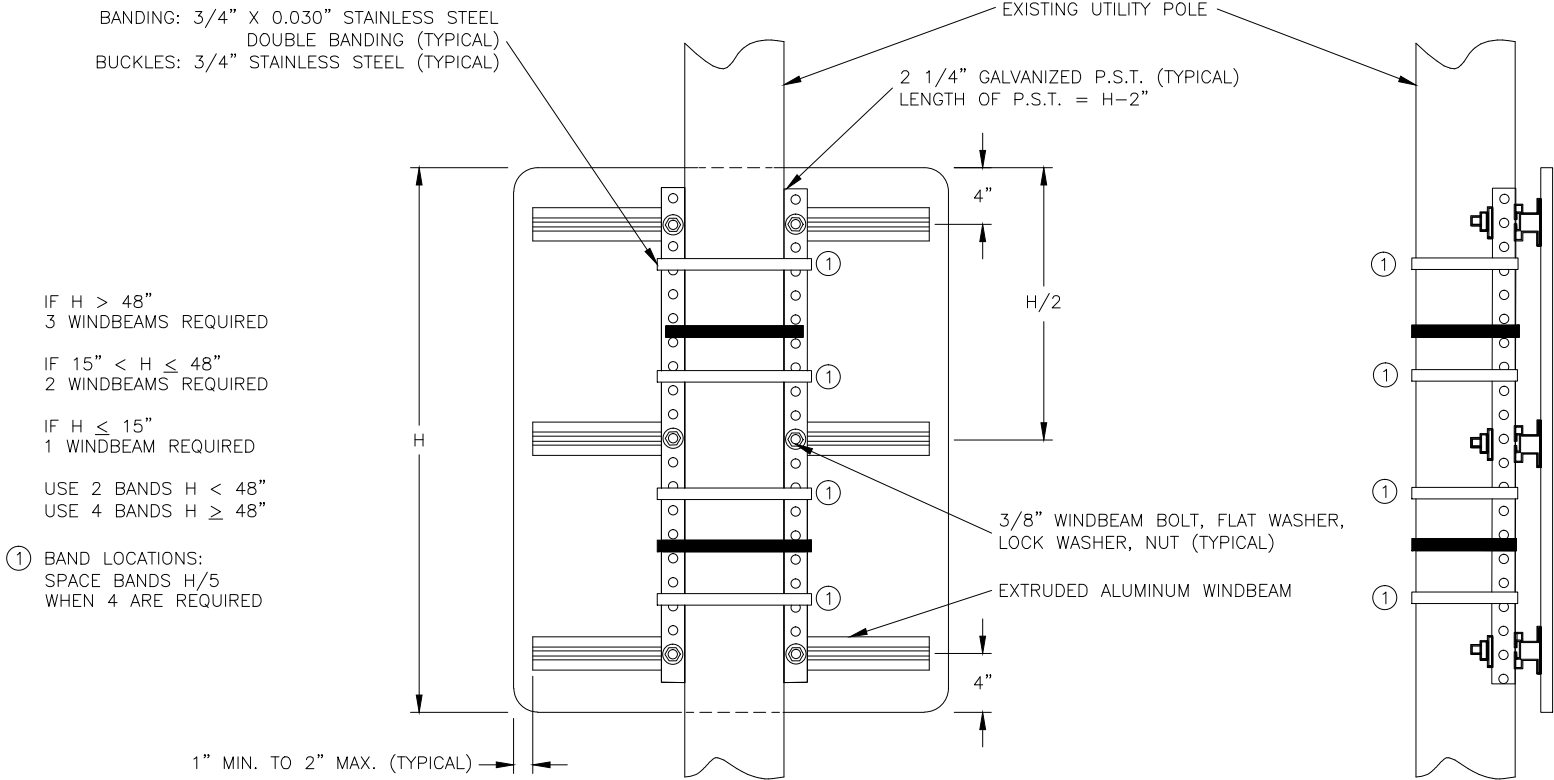
NOTES:

- VERTICALLY SEPARATE R1-1 (STOP) SIGN AND ALL OTHER SIGN ASSEMBLIES MOUNTED ON THE SAME POST BY 2-1/2 INCHES.

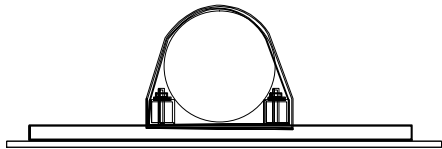
PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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(Gordon Dufseth) K# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H13	H33



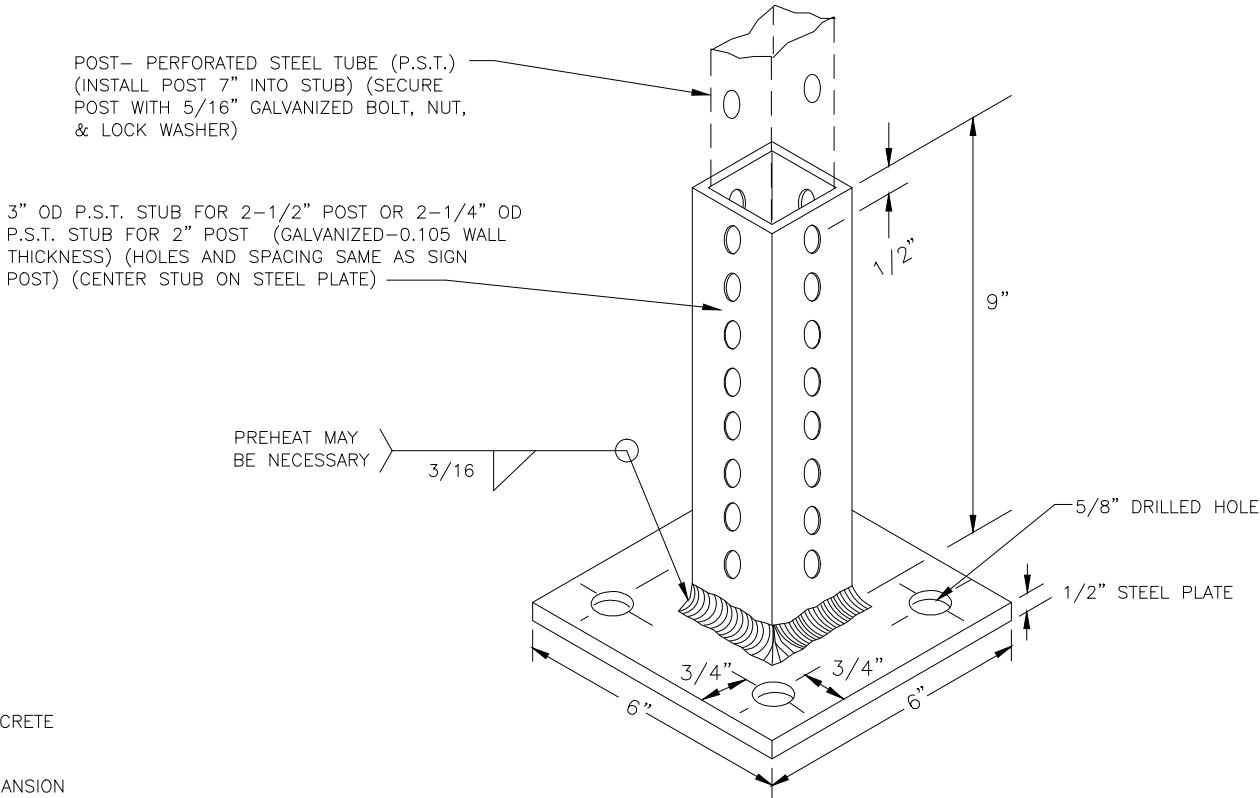
NOTE:
ATTACH SIGN TO WINDBEAMS WITH 3/16"
RIVETS AT 4" STAGGERED SPACING.



LIGHT/SIGNAL POLE SIGN FRAMING & MOUNTING DETAILS
NTS

INSTALLATION NOTES

1. DRILL FOUR (4) 1/2" HOLES IN SIDEWALK OR CONCRETE USING PLATE AS TEMPLATE. (DEPTH AS REQUIRED).
2. INSTALL STUB AND PLATE WITH FOUR (4) HILTI EXPANSION ANCHORS CAT. NO. HDI 3/8" OR APPROVED EQUAL. USE FOUR (4) 3/8" GALVANIZED BOLTS AND FLAT WASHERS.
3. DO NOT SHIM BASE, PLUMB STUB BY HEATING AT PLATE.
4. PAINT STUB AND BASE WITH ZINC RICH PAINT PRIOR TO INSTALLATION.



SIDEWALK MOUNTING STUB FOR SIGN POSTS

NTS

SIGN DETAILS
2 OF 3

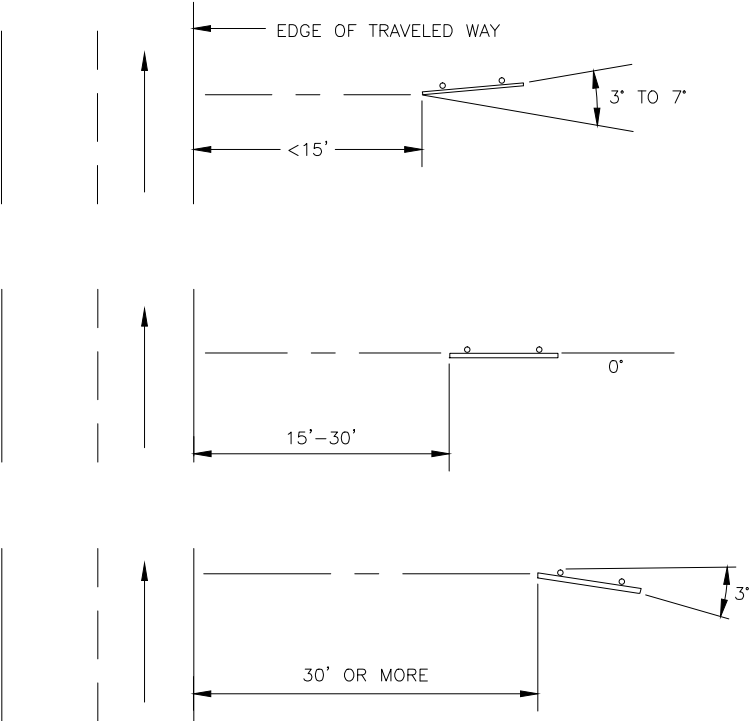
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND

5/29/2020

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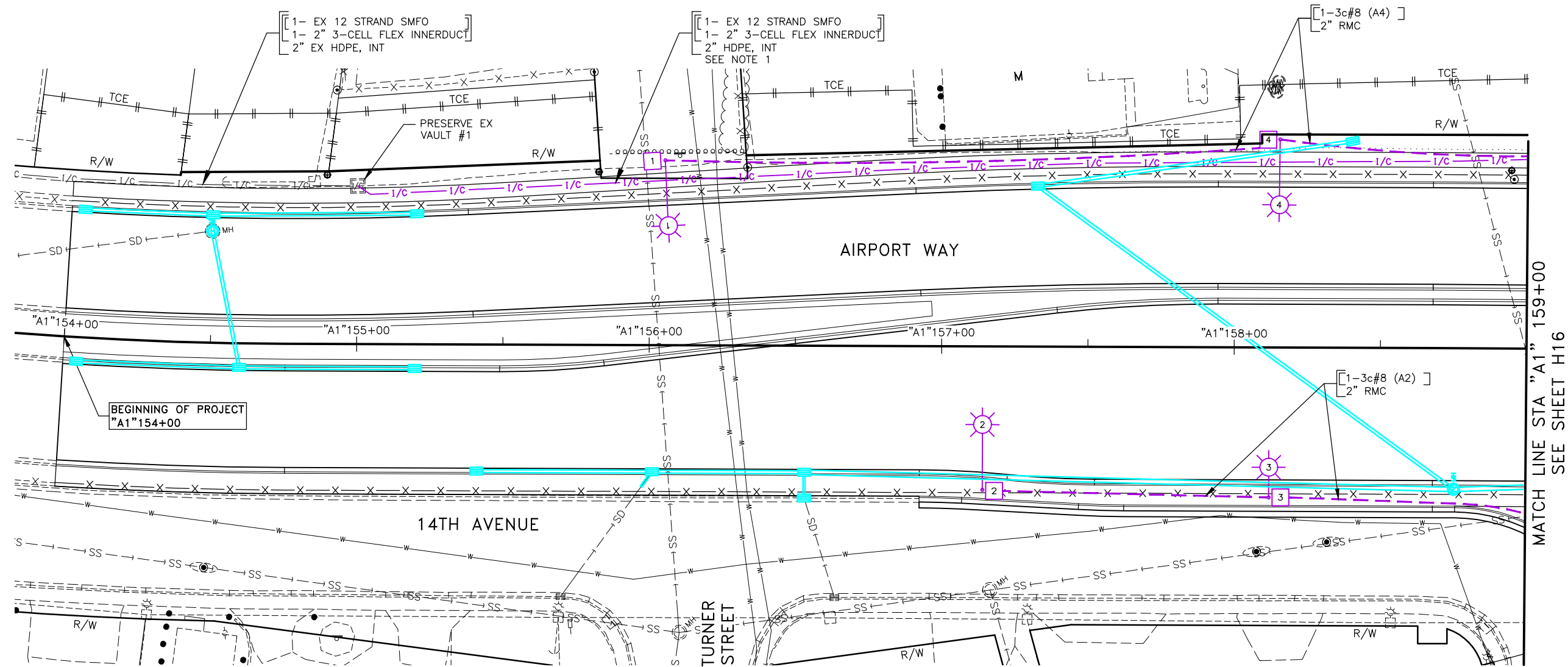
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H14	H33



SIGN INSTALLATION ANGLES

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H15	H33



GENERAL NOTES (APPLIES TO H15-H20):

- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- EXCEPT FOR CONDUITS WITH FIBER OPTIC CABLE, INSTALL 1-1c#8 BARE COPPER GROUND CONDUCTOR IN ALL CONDUITS UNLESS ANOTHER GROUND CONDUCTOR IS SPECIFIED.

SHEET NOTE:

- CUT THE EXISTING AIRPORT WAY FIBER OPTIC CABLE CONNECTED TO THE EXISTING TRAFFIC CONTROLLER IN THE NE QUADRANT OF AIRPORT WAY AND CUSHMAN STREET INTERSECTION AND PULL REMAINING PORTIONS BACK TO EXISTING VAULTS #1 AND #5. AFTER INSTALLATION OF NEW CONDUIT REPULE CABLES AS SHOWN TO VAULT #3 AND SPLICE CABLES.

ILLUMINATION AND
INTERCONNECT 1 OF 6

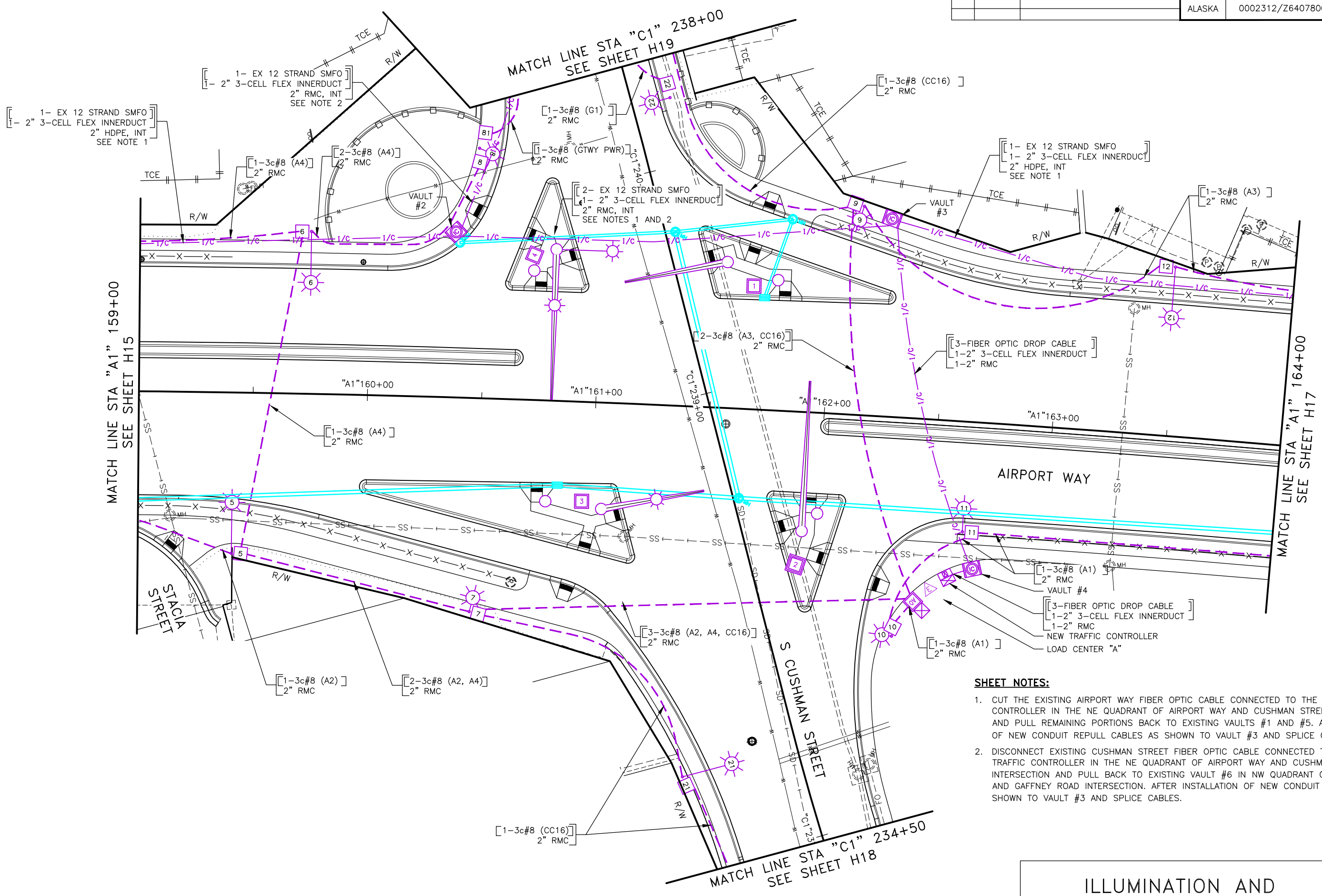
PLANS DEVELOPED BY:
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5/29/2020
PLANS-IN-HAND

5/29/2020

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(Gordon Dufseth) K#E# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H16	H33



- SHEET NOTES:**
- CUT THE EXISTING AIRPORT WAY FIBER OPTIC CABLE CONNECTED TO THE EXISTING TRAFFIC CONTROLLER IN THE NE QUADRANT OF AIRPORT WAY AND CUSHMAN STREET INTERSECTION AND PULL REMAINING PORTIONS BACK TO EXISTING VAULTS #1 AND #5. AFTER INSTALLATION OF NEW CONDUIT REPULL CABLES AS SHOWN TO VAULT #3 AND SPLICE CABLES.
 - DISCONNECT EXISTING CUSHMAN STREET FIBER OPTIC CABLE CONNECTED TO THE EXISTING TRAFFIC CONTROLLER IN THE NE QUADRANT OF AIRPORT WAY AND CUSHMAN STREET INTERSECTION AND PULL BACK TO EXISTING VAULT #6 IN NW QUADRANT OF CUSHMAN STREET AND GAFFNEY ROAD INTERSECTION. AFTER INSTALLATION OF NEW CONDUIT REPULL CABLE AS SHOWN TO VAULT #3 AND SPLICE CABLES.

ILLUMINATION AND
INTERCONNECT 2 OF 6

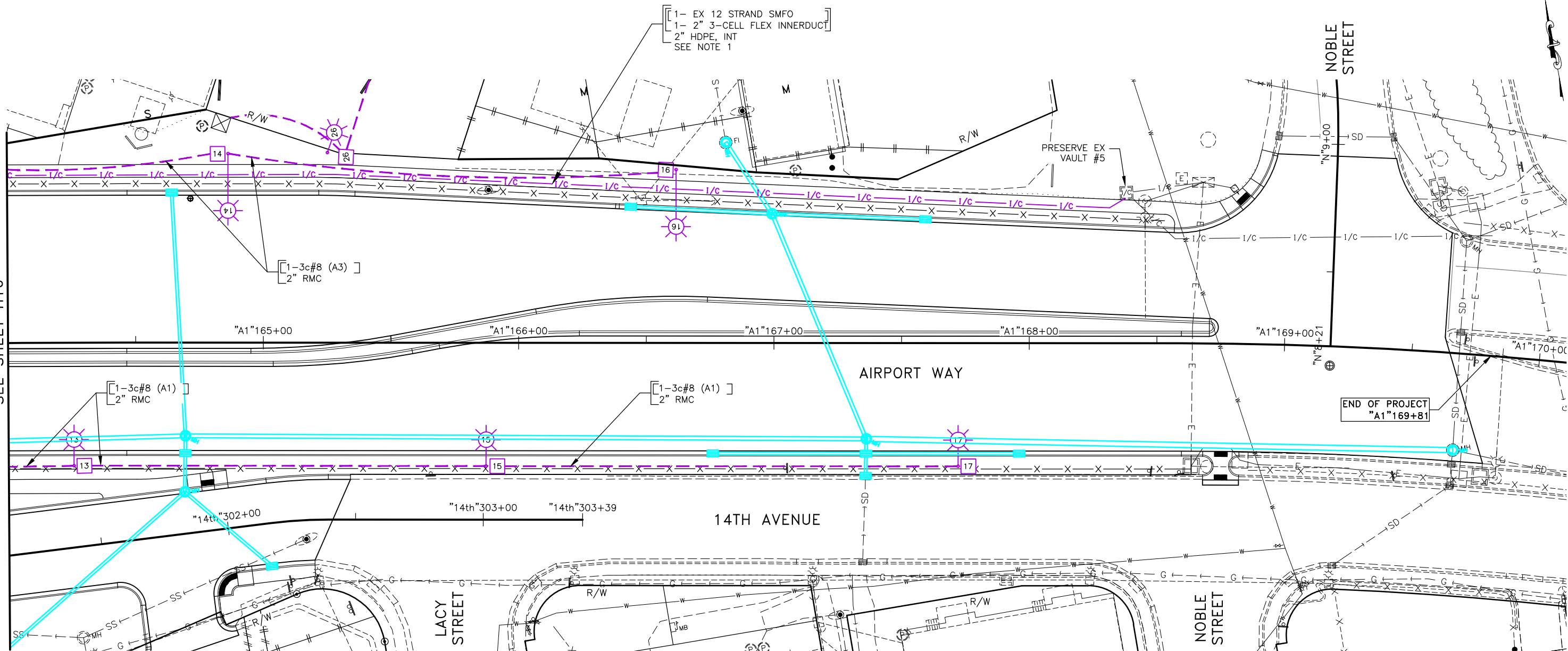
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
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(Gordon Dufseth) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H17	H33

MATCH LINE STA "A1" 164+00
SEE SHEET H16



SHEET NOTE:

1. CUT THE EXISTING AIRPORT WAY FIBER OPTIC CABLE CONNECTED TO THE EXISTING TRAFFIC CONTROLLER IN THE NE QUADRANT OF AIRPORT WAY AND CUSHMAN STREET INTERSECTION AND PULL REMAINING PORTIONS BACK TO EXISTING VAULTS #1 AND #5. AFTER INSTALLATION OF NEW CONDUIT REPULL CABLES AS SHOWN TO VAULT #3 AND SPLICE CABLES.

ILLUMINATION AND
INTERCONNECT 3 OF 6

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

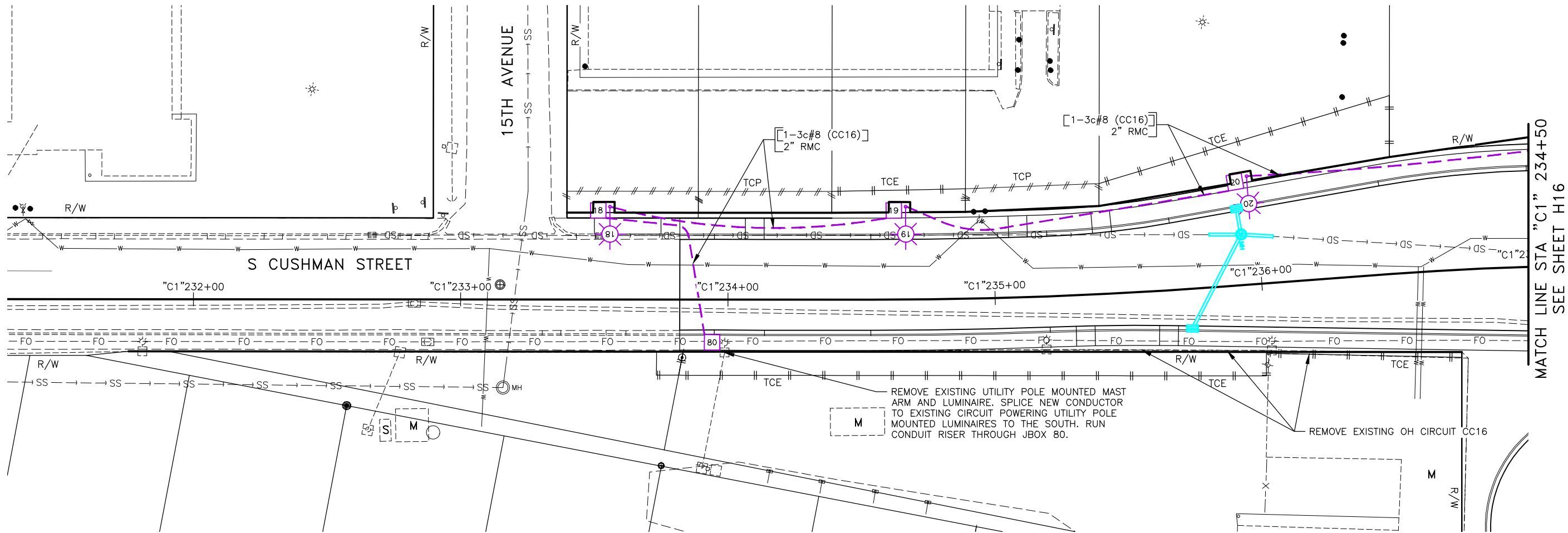
5/29/2020
PLANS-IN-HAND

5/29/2020

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(Gordon Dufseth) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H18	H33



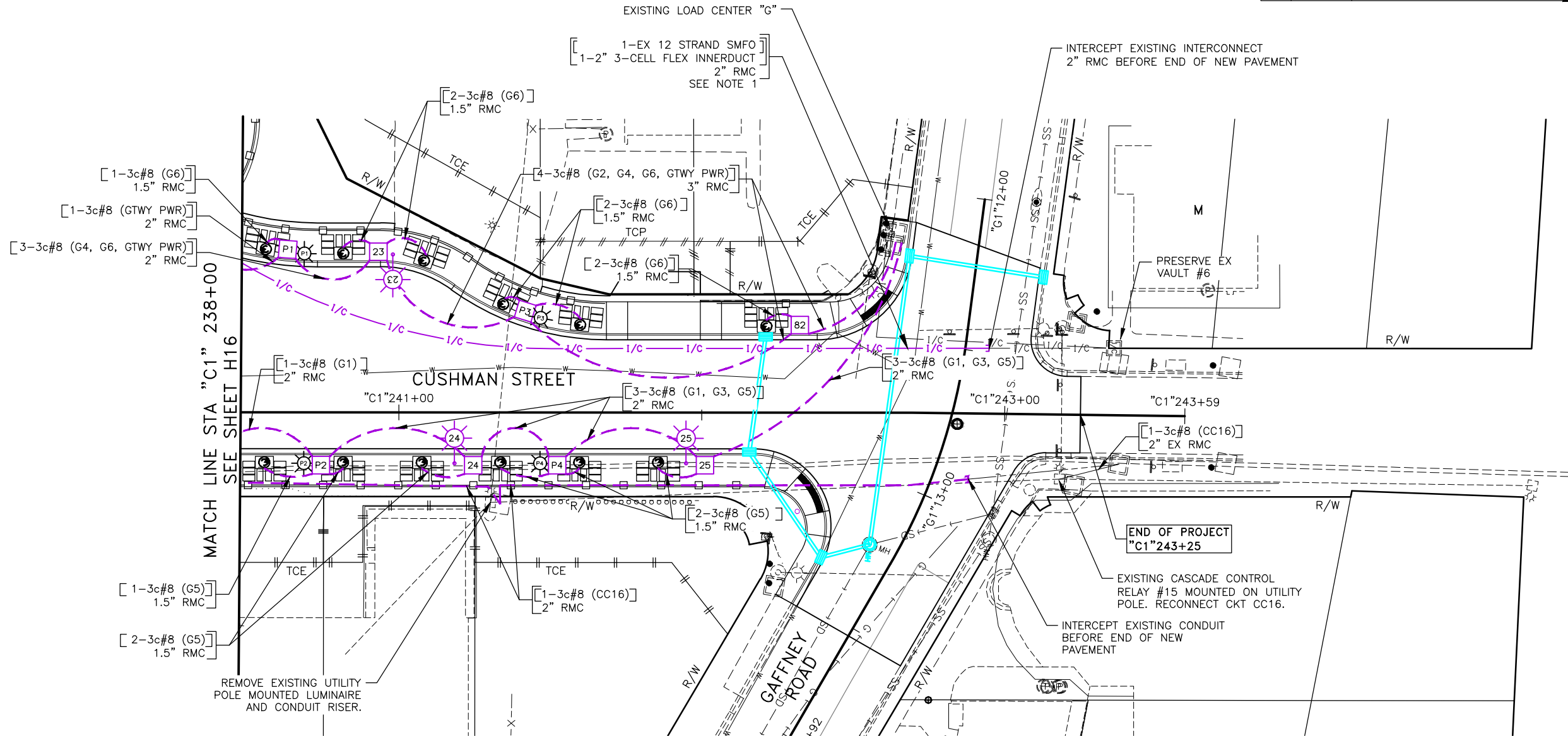
ILLUMINATION AND
INTERCONNECT 4 OF 6

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
PLANS-IN-HAND
5/29/2020

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(Gordon Dufseth) K/E#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H19	H33



SHEET NOTE:

1. DISCONNECT EXISTING CUSHMAN STREET FIBER OPTIC CABLE CONNECTED TO THE EXISTING TRAFFIC CONTROLLER IN THE NE QUADRANT OF AIRPORT WAY AND CUSHMAN STREET INTERSECTION AND PULL BACK TO EXISTING VAULT #6 IN NW QUADRANT OF CUSHMAN STREET AND GAFFNEY ROAD INTERSECTION. AFTER INSTALLATION OF NEW CONDUIT REPULL CABLE AS SHOWN TO VAULT #3 AND SPLICE CABLES.

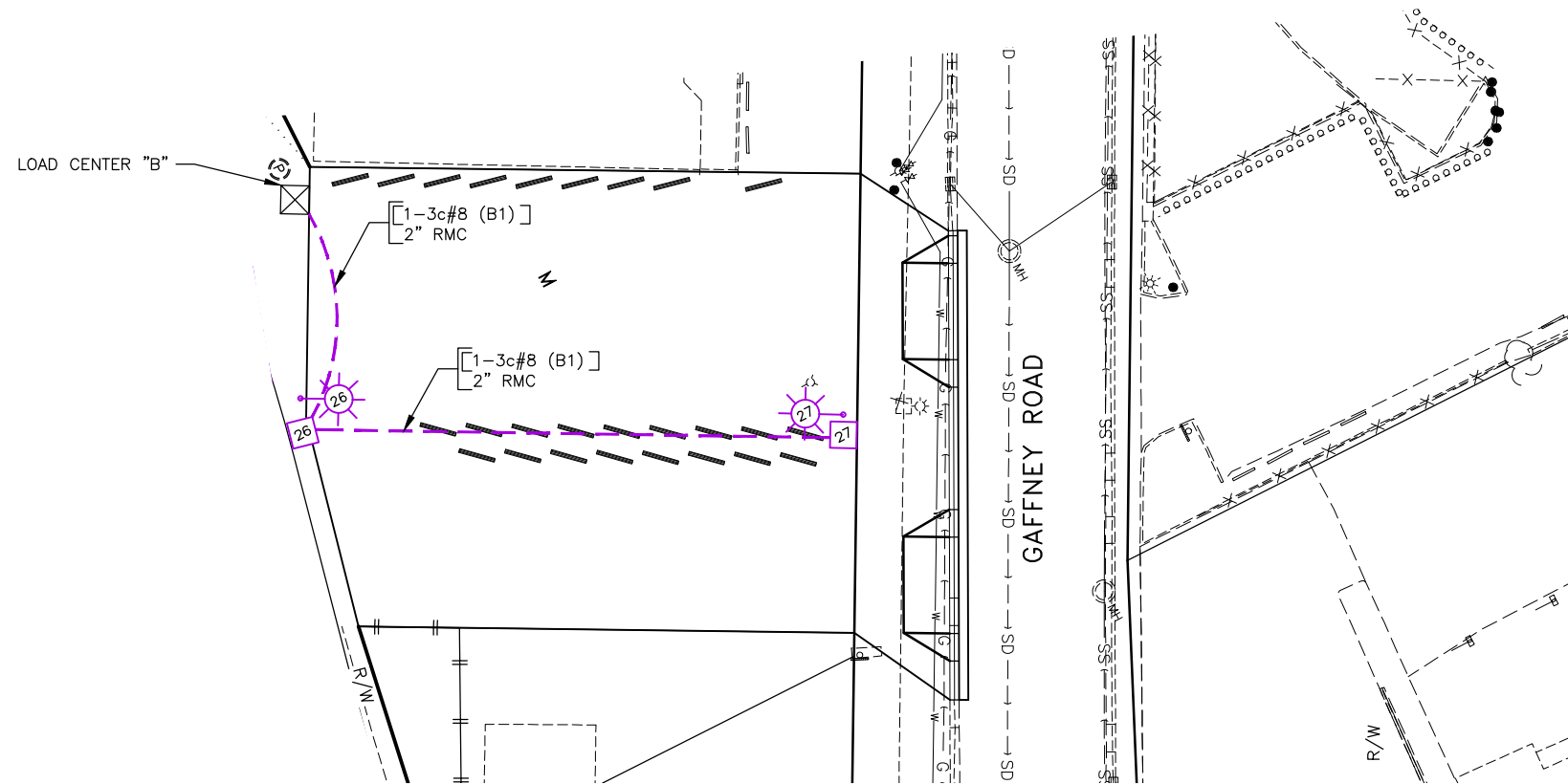
ILLUMINATION AND
INTERCONNECT 5 OF 6

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND

5/29/2020

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H20	H33

ILLUMINATION AND
INTERCONNECT 6 OF 6

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND

5/29/2020

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H21	H33

LUMINAIRE SCHEDULE										
TYPE	MANUFACTURER & MODEL NO.	LIGHT SOURCE	IES TYPE OPTICS	INITIAL LUMENS	COLOR TEMP (CCT)	DRIVER CURRENT	VOLTAGE WATTS	POWER FACTOR	MOUNTING	REMARKS
A	CREE # RSWX-A-HT 3ME-32L-40K7-UL-GY-N	LED	TYPE III MED.	31,100	4000K	1.02 AMPS	240V 240W	>0.9	HORIZ. TENON	
B	CREE # RSWX-A-HT- 3ME-24L-40K7-UL-GY-N	LED	TYPE III MED.	23,800	4000K	0.84 AMPS	240V 200W	>0.9	HORIZ. TENON	
C	CREE # OSQ-A-NM- 3ME-U-40K7-UL-SV-R	LED	TYPE III MED.	26,583	4000K	0.93 AMPS	240V 215W	>0.9	VERT. OSQ-B-AASV MOUNT	MOUNTING ORDERED SEPARATELY FROM LUMINAIRE
D	STERNBERG # 1521LED-R-12L-27-T3-MDL018- FG-EZ-CM	LED	TYPE III	5,695	2700K	0.18 AMPS	240V 60W	>0.9	VERT. EZ HANG	CUSTOM FINISH RAL 8016
E	STERNBERG # PT-12-RW404-56L-27-TS- MDL05-CM	LED	SYMMETRICAL	4,840	2700K	0.525 AMPS	240V 99W	N/A	POST TOP	CUSTOM FINISH RAL 8016
F	STERNBERG # 1531LED-R-32L-27-T4-MDL018- FG-EZ-CM	LED	TYPE IV	15,400	2700K	0.18 AMPS	240V 154W	>0.9	VERT. EZ HANG	CUSTOM FINISH RAL 8016

GENERAL ILLUMINATION NOTES:

1. LUMINAIRES SHALL BE SUITABLE FOR 240V SUPPLY, AND COMPLY WITH SPECIAL PROVISIONS OF SECTION 740-2.18. LUMINAIRES SHALL PROVIDE THE AVERAGE INITIAL LUMINANCE, ILLUMINANCE, AND UNIFORMITIES SPECIFIED IN THE PERFORMANCE CRITERIA SCHEDULES. PROVIDE LIGHTING CALCULATIONS USING THE MANUFACTURER’S CURRENT PUBLISHED PHOTOMETRIC DATA IN ACCORDANCE WITH SPECIAL PROVISIONS OF SECTION 740-2.18 FOR LED ROADWAY LUMINAIRES.
2. PRIOR TO INSTALLATION, CONTRACTOR SHALL REQUEST LOCATES FOR EXISTING UNDERGROUND UTILITIES, AND RECEIVE WRITTEN CONFIRMATION THAT ALL FACILITIES HAVE BEEN IDENTIFIED.
3. POLE LOCATIONS SHALL BE STAKED AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ADJUST POLE LOCATIONS AS DIRECTED BY THE ENGINEER. MINOR RELOCATIONS OF FOUNDATIONS, CONDUIT, AND JUNCTION BOXES SHALL BE CONSIDERED SUBSIDIARY TO THE SECTION 660.0003.0000 PAY ITEM.
4. JUNCTION BOXES AND CONDUIT RUNS SHOWN IN PLANS FOR THE LIGHTING SYSTEM ARE CONSIDERED SUBSIDIARY TO THE 660(3) HIGHWAY LIGHTING SYSTEM PAY ITEM.
5. DESIGN MOUNTING HEIGHT AS SCHEDULED SHALL BE MEASURED FROM THE FINISHED ROAD SURFACE TO THE LUMINAIRE. ALL COBRAHEAD LUMINAIRES SHALL BE CUTOFF TYPE MOUNTED HORIZONTAL WITH ZERO TILT UNLESS OTHERWISE NOTED.
6. PROVIDE LIGHTING STANDARDS AND CONCRETE POLE FOUNDATIONS IN ACCORDANCE WITH PLAN DETAILS, NOTES, AND SPECIFICATIONS.
7. ORIENT POLE WITH LUMINAIRE MAST ARMS AS INDICATED ON THE PLANS, TYPICALLY PERPENDICULAR TO THE ROADWAY CENTERLINE, UNLESS A SPECIFIC ORIENTATION IS OTHERWISE NOTED.
8. WITH EXCEPTION TO COF LIGHT POLES, ALL LUMINAIRES SHALL BE FURNISHED WITH A 0-10V DIMMING BALLAST, 7-PIN NEMA TWIST-LOCK RECEPTACLE AND WIRELESS CONTROL NODE. UNLESS OTHERWISE NOTED, LUMINAIRES SHALL BE SET WITH NO DIMMING.
9. COF LIGHT POLES SHALL BE FIXED BASED AND, UNLESS OTHERWISE NOTED, ALL OTHER LIGHT POLES SHALL BE MOUNTED USING FRANGIBLE COUPLINGS.
10. WIRING BETWEEN AN ELECTROLIER AND THE JUNCTION BOX SERVING IT SHALL CONSIST OF 1-3c#8 CABLE IN AND OUT (2-3c#8) AND 1-1c#8 BARE COPPER GROUND IN A 2” RMC.

ABBREVIATIONS:

EX EXISTING
CIDH CAST IN DRILLED HOLE
STP STEEL TAPERED POLE
N/A NOT APPLICABLE

STREET LIGHTING DESIGN CRITERIA	
ROADWAY CHARACTERISTICS	
ROADWAY LIGHTING STANDARD:	IESNA RP-8-2014
CALCULATION ZONE:	ENTIRE ROADWAY
STREET CLASSIFICATION	MAJOR
PEDESTRIAN AREA CLASSIFICATION:	MEDIUM (UNLESS NOTED OTHERWISE)
PAVEMENT CLASSIFICATION:	R3
TRAFFIC FLOW:	2-WAY
LANE WIDTH:	12 FT.
NO. OF LANES, LEFT / RIGHT:	2 BOTH DIRECTIONS
MEDIAN:	VARIES
AIRPORT WAY AND CUSHMAN STREET LUMINANCE CRITERIA	
AVERAGE MAINTAINED (Lavg):	0.9 CD/SQ M
Lavg/Lmin RATIO (MAXIMUM):	<= 3.0
Lmax/Lmin RATIO (MAXIMUM):	<= 5.0
Lvmax/Lavg VEILING LUMINANCE RATIO (MAXIMUM):	<= 0.3
INTERSECTION ILLUMINANCE CRITERIA	
AIRPORT WAY/CUSHMAN STREET, ILLUMINANCE:	Eavg >= 2.6 FC Eavg/Emin <= 3.0
TURN LANE ILLUMINANCE CRITERIA	
ALL LT AND RT TURN LANES, ILLUMINANCE:	Eavg >= 1.8 FC Eavg/Emin <= 0.6 FC
PEDESTRIAN CROSSWALK ILLUMINANCE CRITERIA	
CONFLICT AREA LIMITS:	CROSSWALKS / CURB RAMPS
CROSSWALKS AT SIGNALIZED INTERSECTIONS, MEDIUM PEDESTRIAN CONFLICT:	Emin,v >= 0.2 FC METERED AT 5 FT HEIGHT AND 1.64 FT SPACING IN DIRECTION OF APPROACHING TRAFFIC, CENTERED IN CROSSWALK.
CROSSWALKS AT NON-SIGNALIZED, UNCONTROLLED TRAFFIC FREE-RIGHT SLIP LANES, HIGH PEDESTRIAN CONFLICT:	Eavg >= 2.6 FC Eavg/Emin <= 4.0 FC Emin,v >= 1.0 FC METERED AT 5 FT HEIGHT AND 1.64 FT SPACING IN DIRECTION OF APPROACHING TRAFFIC, CENTERED IN CROSSWALK.
LUMINAIRE DEPRECIATION	
LED - TOTAL LIGHT LOSS FACTOR (LLF):	0.85

ILLUMINATION SUMMARY
1 OF 4

PLANS DEVELOPED BY:
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5/29/2020
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5/29/2020

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H22	H33

NOTE:
SEE SHEET H21 FOR ELECTROLIER NOTES.

COBRAHEAD ELECTROLIER SUMMARY													
LUMINAIRE NO.	ALIGN.	STATION	OFFSET	POLE TYPE	BASE TYPE	LUMINAIRE				CIRCUIT	MOUNT HEIGHT (FT)	MAST ARM LENGTH (FT)	REMARKS
						TYPE	VOLTAGE	WATTAGE	DIMMING (NOTE 8)				
1	"A1"	156+05.3	63.1 L	STP		B	240	200		A4	40	22	
2	"A1"	157+14.1	49.0 R	STP		B	240	200		A2	40	22	
3	"A1"	158+11.9	51.2 R	STP		B	240	200		A2	40	10	
4	"A1"	158+15.5	71.0 L	STP		B	240	200		A4	40	22	
5	"A1"	159+41.5	70.4 R	STP		B	240	200		A2	40	22	
6	"A1"	159+74.1	71.0 L	STP		B	240	200		A4	40	22	
7	"A1"	160+47.4	93.5 R	STP		B	240	200		A2	40	6	
8	"A1"	160+45.6	109.3 L	STP		B	240	200		A4	40	6	
9	"A1"	162+12.4	91.3 L	STP		B	240	200		A3	40	6	
11	"A1"	162+63.6	48.2 R	STP		B	240	200		A1	40	10	
12	"A1"	163+48.2	74.0 L	STP		B	240	200		A3	40	22	
13	"A1"	164+25.8	48.3 R	STP		B	240	200		A1	40	10	
14	"A1"	164+86.1	74.0 L	STP		B	240	200		A3	40	22	
15	"A1"	165+87.3	48.3 R	STP		B	240	200		A1	40	10	
16	"A1"	166+61.6	67.9 L	STP		A	240	245		A3	40	22	
17	"A1"	167+72.1	48.2 R	STP		A	240	245		A1	40	10	
18	"C1"	233+55.8	34.8 L	STP		B	240	200		CC16	40	10	
19	"C1"	234+66.7	34.7 L	STP		B	240	200		CC16	40	10	
20	"C1"	235+97.3	40.6 L	STP		B	240	200		CC16	40	10	
21	"C1"	237+40.6	51.8 L	STP		B	240	200		CC16	40	22	

OFFSET ELECTROLIER SUMMARY													
LUMINAIRE NO.	ALIGN.	STATION	OFFSET	POLE TYPE	BASE TYPE	LUMINAIRE				CIRCUIT	MOUNT HEIGHT (FT)	TILT (DEGREES)	REMARKS
						TYPE	VOLTAGE	WATTAGE	DIMMING (NOTE 8)				
10	"A1"	162+35.2	95.7 R	STP		C	240	215		A1	40	22	

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(Gordon Dufseth)

NOTE:
SEE SHEET H21 FOR ELECTROLIER NOTES.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H23	H33

COF ELECTROLIER SUMMARY													
LUMINAIRE NO.	ALIGN.	STATION	OFFSET	POLE TYPE	BASE TYPE	LUMINAIRE				CIRCUIT	MOUNT HEIGHT (FT)	MAST ARM LENGTH (FT)	REMARKS
						TYPE	VOLTAGE	WATTAGE	DIMMING (NOTE 8)				
22	"C1"	240+29.1	16.8 R	STP		D	240	60		G1	30	8	
23	"C1"	240+98.0	52.1 L	STP		D	240	60		G2	30	8	
24	"C1"	241+18.3	16.8 R	STP		D	240	60		G1	30	8	
25	"C1"	241+94.8	16.8 R	STP		D	240	60		G1	30	8	
26	"A1"	165+25.1	74.4 L	STP		F	240	155		B1			
27	"A1"	165+63.4	186.3 L	STP		F	240	155		B1			

COF PEDESTRIAN LUMINAIRE SUMMARY													
LUMINAIRE NO.	ALIGN.	STATION	OFFSET	POLE TYPE	BASE TYPE	LUMINAIRE				CIRCUIT	MOUNT HEIGHT (FT)	MAST ARM LENGTH (FT)	REMARKS
						TYPE	VOLTAGE	WATTAGE	DIMMING (NOTE 8)				
P1	"C1"	240+68.7	52.4 L	POST		E	240	99		G4	12		
P2	"C1"	240+68.6	16.8 R	POST		E	240	99		G3	12		
P3	"C1"	241+46.8	31.2 L	POST		E	240	99		G4	12		
P4	"C1"	241+46.6	16.8 R	POST		E	240	99		G3	12		

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H24	H33

NOTE:
SEE SHEET H21 FOR ELECTROLIER NOTES.

LUMINAIRE JUNCTION BOX SUMMARY						
LUMINAIRE NO.	ALIGN.	STATION	OFFSET	TYPE	CIRCUIT	REMARKS
1	"A1"	156+01.1	L	1A	A4	
2	"A1"	157+18.3	R	1A	A2	
3	"A1"	158+16.2	R	1A	A2	
4	"A1"	158+11.2	L	1A	A4	
5	"A1"	159+45.8	R	1A	A2, A4	
6	"A1"	159+69.9	L	1A	A4	
7	"A1"	160+51.6	R	1A	A2, A4, CC16	
8	"A1"	160+44.4	L	1A	A4	
9	"A1"	162+08.4	L	1A	A3, CC16	
10	"A1"	162+35.6	R	1A	A1	
11	"A1"	162+67.9	R	1A	A1	
12	"A1"	163+44.0	L	1A	A3	
13	"A1"	164+30.1	R	1A	A1	
14	"A1"	164+81.9	L	1A	A3	
15	"A1"	165+91.5	R	1A	A1	
16	"A1"	166+57.4	L	1A	A3	
17	"A1"	167+76.4	R	1A	A1	
18	"C1"	233+53.2	L	1A	CC16	
19	"C1"	234+64.1	L	1A	CC16	
20	"C1"	235+94.7	L	1A	CC16	
21	"C1"	237+36.4	L	1A	CC16	
22	"C1"	240+33.6	R	1A	G1	
23	"C1"	240+93.0	L	1A	G2, G4, G6, GTWY PWR	
24	"C1"	241+22.8	R	1A	G1, G3, G5	
25	"C1"	241+99.3	R	1A	G1, G3, G5	
26	"A1"	165+32.2	L	1A	B1	
27	"A1"	165+67.4	L	1A	B1	
80	"C1"	233+97.0	R	1A	CC16	
81	"C1"	240+37.7	LT	1A	GTWY PWR	
82	"C1"	242+30.6	L	1A	G2, G4, G6, GTWY PWR	
P1	"C1"	240+64.8	L	1A	G4, G6, GTWY PWR	
P2	"C1"	240+72.6	R	1A	G1, G3, G5	
P3	"C1"	241+42.8	L	1A	G2, G4, G6, GTWY PWR	
P4	"C1"	241+50.6	R	1A	G1, G3, G5	

ELECTROLIER DEMOLITON SUMMARY			
ALIGN.	STATION	OFFSET	REMARKS
"A1"	156+41.1	L	SALVAGE 2 EA LUMINAIRE
"A1"	157+95.2	R	SALVAGE LUMINAIRE
"A1"	158+72.3	L	SALVAGE LUMINAIRE
"A1"	159+34.8	L	SALVAGE LUMINAIRE
"A1"	159+35.1	R	SALVAGE LUMINAIRE
"A1"	159+62.4	L	SALVAGE LUMINAIRE
"A1"	160+50.6	L	SALVAGE LUMINAIRE
"A1"	160+80.3	R	SALVAGE LUMINAIRE
"A1"	162+12.1	L	SALVAGE LUMINAIRE
"A1"	163+86.3	L	SALVAGE LUMINAIRE
"A1"	163+86.3	R	SALVAGE LUMINAIRE
"A1"	165+44.9	L	SALVAGE LUMINAIRE
"A1"	167+03.8	L	SALVAGE LUMINAIRE
"A1"	167+03.9	R	SALVAGE LUMINAIRE

REMOVE UTILITY POLE MOUNTED LUMINAIRE			
ALIGN.	STATION	OFFSET	REMARKS
"A1"	156+88.8	LT	SALVAGE LUMINAIRE
"C1"	233+98.8	R	
"C1"	235+18.5	RT	
"C1"	236+01.9	RT	
"C1"	237+75.0	RT	
"C1"	241+33.4	R	

LIGHTING DEMOLITION NOTES:

1. CONTRACTOR SHALL SALVAGE LUMINAIRES FROM EXISTING DEMOLISHED ELECTROLIERS AS SCHEDULED.
2. 4 EA LUMINAIRES SHALL BE SALVAGED FROM DEMOLISHED SIGNAL POLES FROM AIRPORT WAY AND CUSHMAN STREET INTERSECTION.
3. DELIVER SALVAGED FIXTURES TO DOT MAINTENANCE. CONTACT ERIC SLAY (907) 451-5279 TO ARRANGE FOR DELIVERY.
4. UNLESS OTHERWISE NOTED REMOVE EXISTING ELECTROLIER FOUNDATIONS ALONG WITH POLES.
5. REMOVE ANY AERIAL CIRCUITRY ASSOCIATED WITH UTILITY POLE MOUNTED LUMINAIRES SCHEDULED FOR REMOVAL.

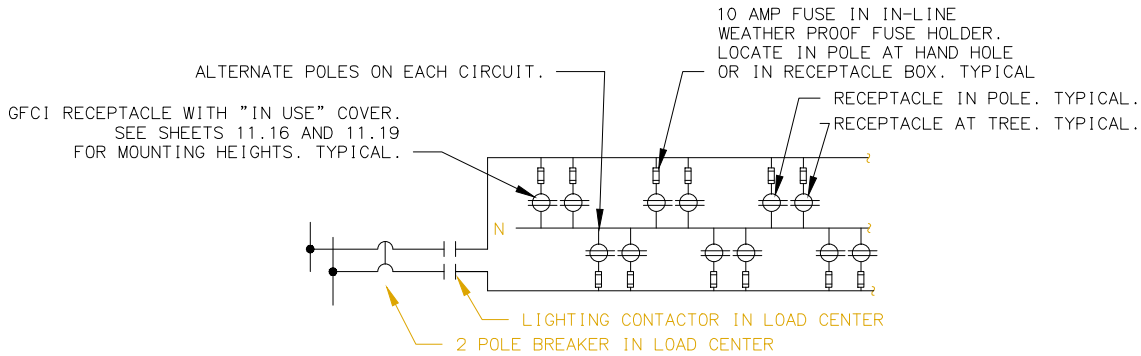
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H25	H33

LOAD CENTER SUMMARY

5/29/2020
PLANS-IN-HAND

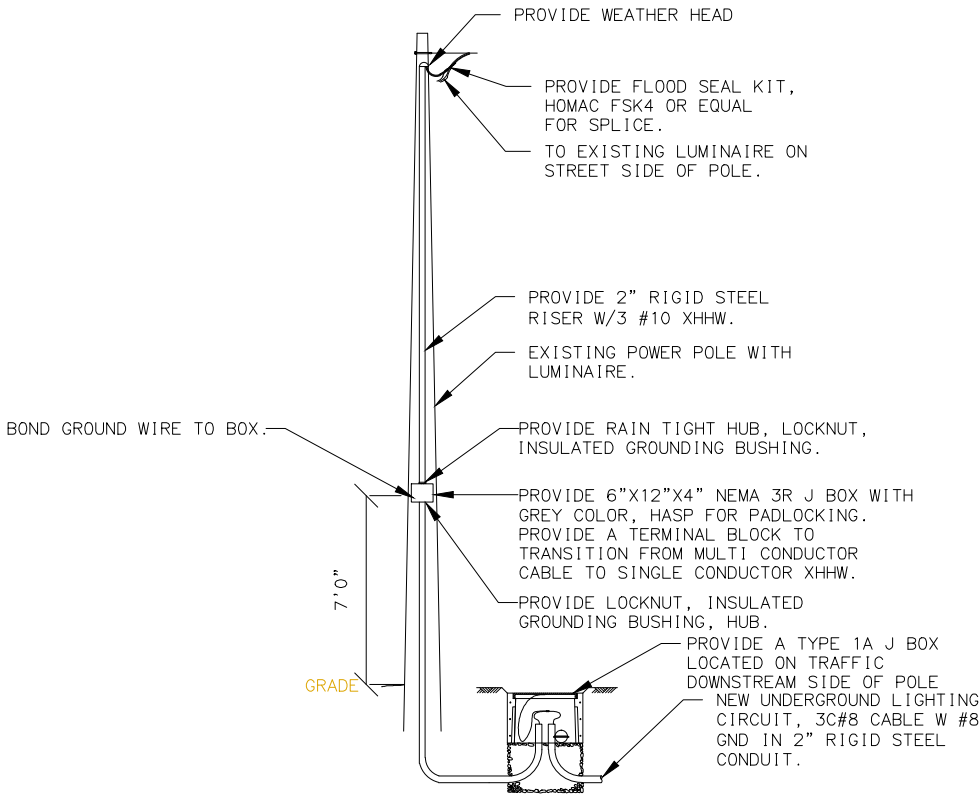
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Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\C\Sheets\64078_H26_ILUM DETAILS-H26 Fri, May/29/20 06:12pm
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			ALASKA	0002312/Z640780000	2020	H26	H33



POLE MOUNTED AND TREE WELL
RECEPTACLE WIRING DIAGRAM

NOT TO SCALE



TYPICAL TRANSITION BETWEEN AERIAL &
UNDERGROUND LIGHTING CIRCUIT

NOT TO SCALE

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Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\C\Sheets\64078_H26_INTCONT DETAILS-H27 Fri, May/29/20 06:12pm

(Gordon Dufseth) KE#: 00385

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			ALASKA	0002312/Z640780000	2020	H27	H33

FIBER—OPTIC INTERCONNECT VAULT SCHEDULE					
I/C VAULT NO.	LOCATION			TYPE	REMARKS
	ALIGNMENT	STATION	OFFSET		
1	A1	155+00	54.0’ LT	EX TYPE II	
2	A1	160+37	72.4’ LT	MANHOLE	
3	A1	162+25	86.6’ LT	MANHOLE	
4	A1	162+69	64.2’ RT	MANHOLE	
5	A1	168+38	58.9’ RT	EX TYPE II	
6	A1	243+36	22.1’ LT	EX TYPE II	

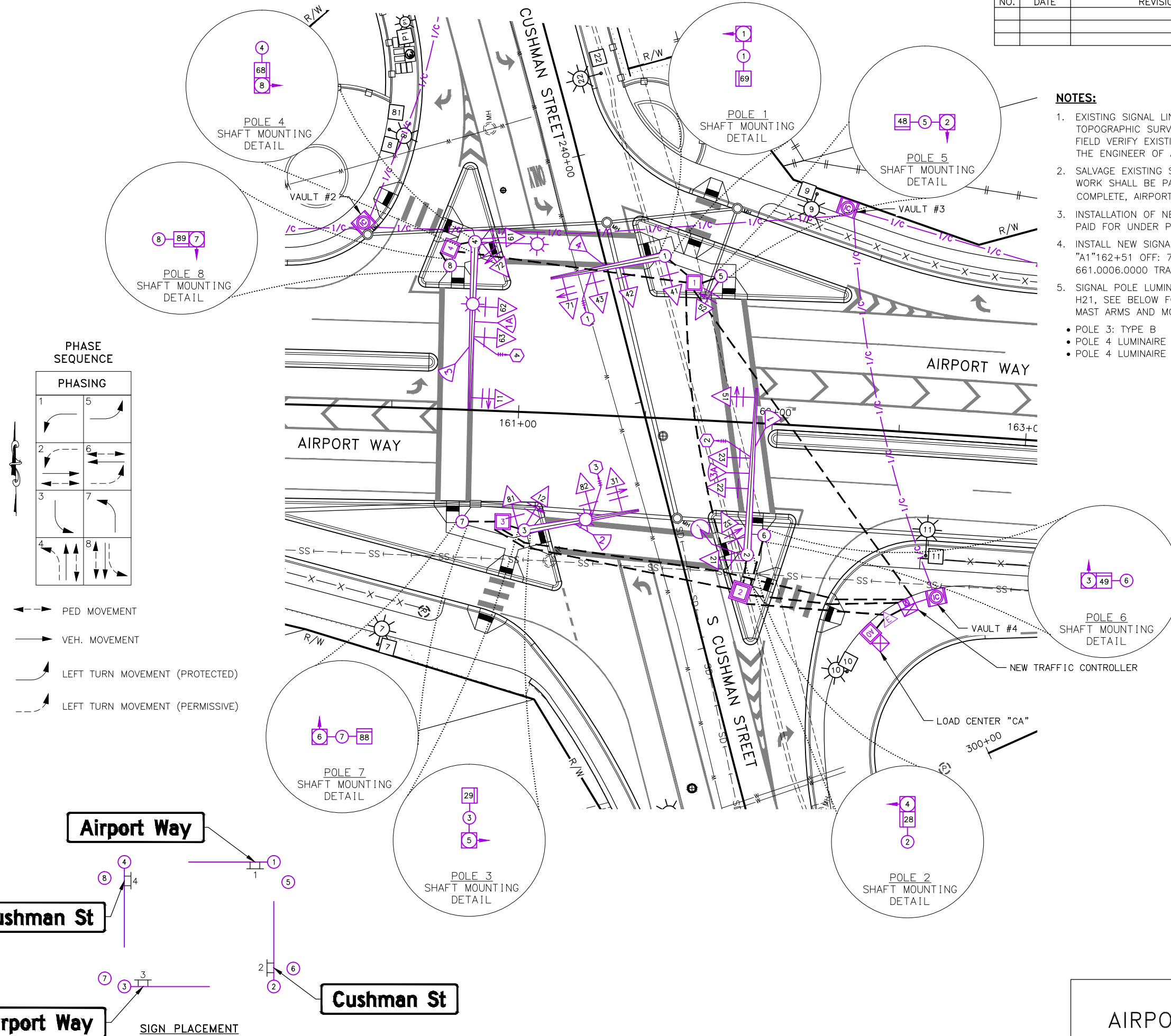
INTERCONNECT DETAILS

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND

5/29/2020

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H28	H33



NOTES:

1. EXISTING SIGNAL LINE WORK IS FROM A COMBINATION OF DESIGN TOPOGRAPHIC SURVEY, AS-BUILTS AND SITE VISITS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE MAKING MODIFICATIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
2. SALVAGE EXISTING SIGNAL EQUIPMENT PER THE SPECIFICATIONS. THIS WORK SHALL BE PAID FOR UNDER 660.0001.000 TRAFFIC SIGNAL SYSTEM COMPLETE, AIRPORT/CUSHMAN.
3. INSTALLATION OF NEW SIGNS ON TRAFFIC SIGNAL STRUCTURES WILL BE PAID FOR UNDER PAY ITEM 615.0001.0000.
4. INSTALL NEW SIGNAL CONTROLLER TRANSFORMER AND DISCONNECT AT STA: "A1"162+51 OFF: 74.2 RT. PAYMENT SHALL BE MADE UNDER PAY ITEM 661.0006.0000 TRANSFORMERS, 5KVA.
5. SIGNAL POLE LUMINAIRES SHALL BE PER LUMINAIRE SCHEDULE ON SHEET H21, SEE BELOW FOR TYPE. SEE SHEET H31 FOR REQUIRED ILLUMINATION MAST ARMS AND MOUNTING HEIGHTS.
 - POLE 3: TYPE B
 - POLE 4 LUMINAIRE 1: TYPE B
 - POLE 4 LUMINAIRE 2: TYPE B

SIGNAL PLAN
AIRPORT WAY—CUSHMAN
STREET

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND

/29/2020

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			ALASKA	0002312/Z640780000	2020	H29	H33

WIRING DIAGRAM CODING LEGEND			
OPC = OPTICOM CABLE	5c#14	TRAFFIC SIGNALS	
LL = LOOP LEAD-IN	7c#14	PROTECTED-PERMITTED SIGNALS	
I/C = SMFO INTERCONNECT	5c#14	PEDESTRIAN SIGNALS	
PWR = POWER CONDUCTORS	2c#14	PEDESTRIAN PUSH-BUTTON	
T = TRANSFORMER	3pr#18	LOOP LEAD-IN CABLE & VD ET	
PTZ = PAN, TILT, ZOOM CAMERA	6pr#18		
GND = GROUND	9pr#18		
ILL = ILLUMINATION	15pr#18		
RMC = RIGID METAL CONDUIT	3c#8	ILLUMINATION	
PVC = POLYVINYL CHLORIDE CONDUIT	3c#6	SIGNAL POWER	
HDPE= HIGH DENSITY POLYETHYLENE	1c#8	BARE COPPER GROUND	
PPB = PEDESTRIAN PUSH-BUTTON	18pr#19	PE-39 INTERCONNECT CABLE	
SIG# = SIGNAL HEAD NUMBER	1c#6	BARE COPPER GROUND	
PED = PEDESTRIAN SIGNAL	APT MATRIX 2	RDET HOME RUN CABLE	
DET = DETECTION CONDUIT	CAT-6A	DATA CABLE	
F = FUTURE USE	SMFO	SINGLE MODE FIBER OPTIC	
RDET = RADAR DETECTION			
EX = EXISTING			
AAWF= ACTIVE ADVANCED WARNING FLASHER			

NOTES:

- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- EXCEPT FOR CONDUITS WITH FIBER OPTIC CABLE, INSTALL 1-1c#8 BARE COPPER GROUND CONDUCTOR IN ALL CONDUITS UNLESS ANOTHER SIZED GROUND CONDUCTOR IS SPECIFIED.

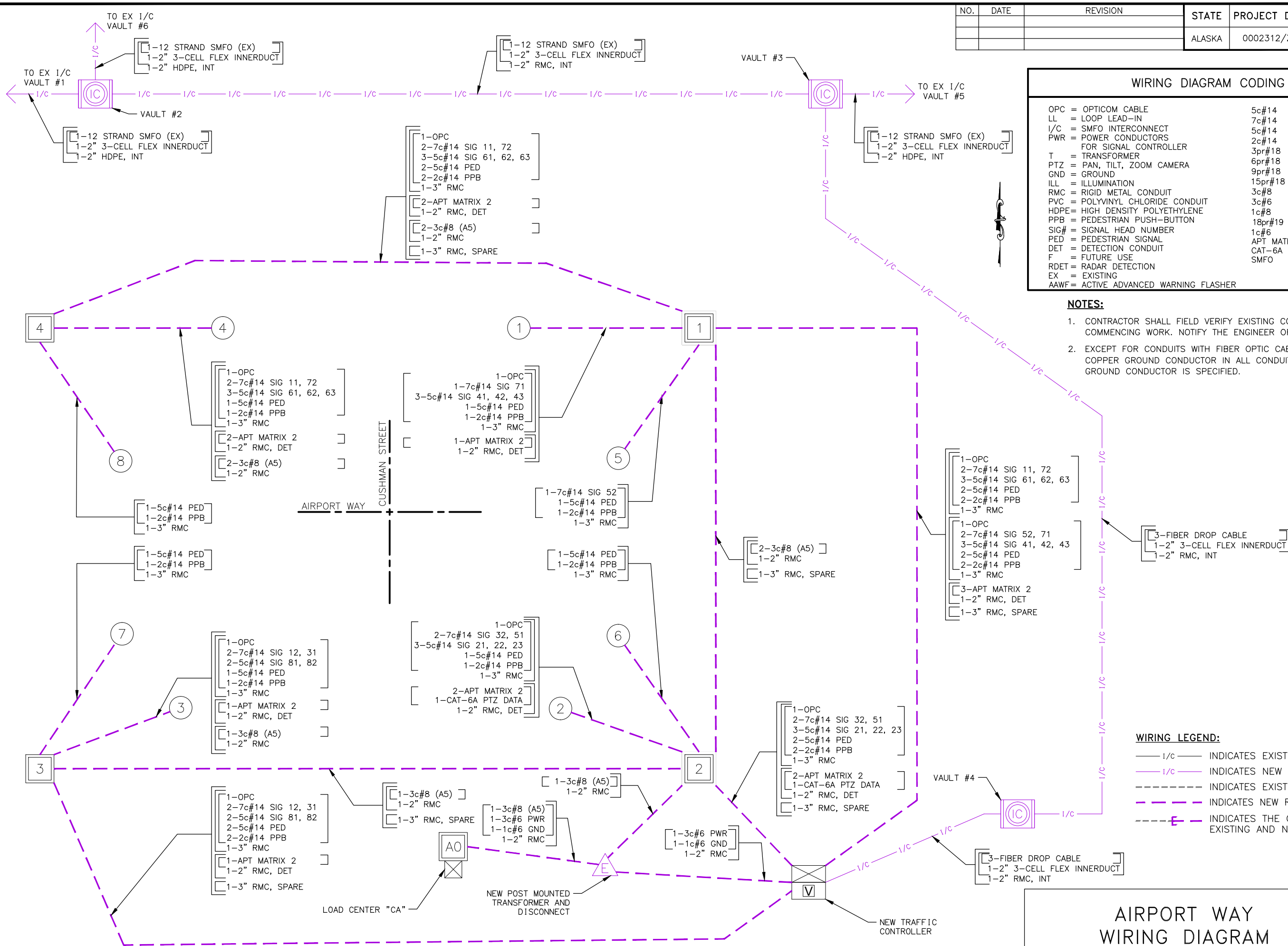
WIRING LEGEND:

- I/C — INDICATES EXISTING INTERCONNECT CONDUIT RUN
- I/C — INDICATES NEW INTERCONNECT CONDUIT RUN
- INDICATES EXISTING CONDUIT RUN
- INDICATES NEW RIGID METAL CONDUIT RUN(S)
- E ----- INDICATES THE CONNECTION BETWEEN EXISTING AND NEW CONDUIT

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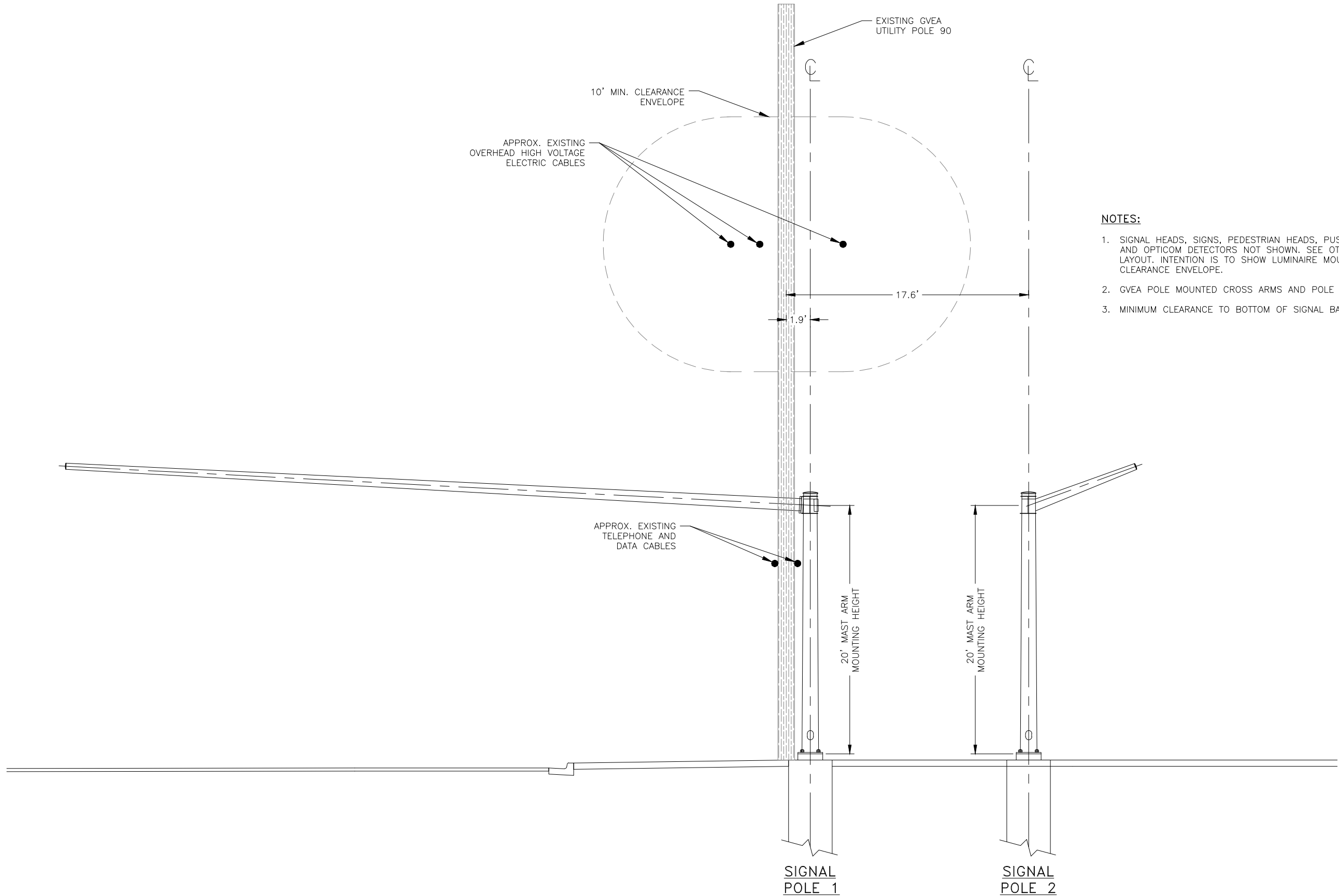
5/29/2020



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(Gordon Dufseth) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H30	H33



NOTES:

1. SIGNAL HEADS, SIGNS, PEDESTRIAN HEADS, PUSH BUTTONS, RADAR DETECTORS, AND OPTICOM DETECTORS NOT SHOWN. SEE OTHER SIGNAL SHEETS FOR LAYOUT. INTENTION IS TO SHOW LUMINAIRE MOUNTING HEIGHT AND ELECTRIC CLEARANCE ENVELOPE.
2. GVEA POLE MOUNTED CROSS ARMS AND POLE TOP GUY CABLES NOT SHOWN.
3. MINIMUM CLEARANCE TO BOTTOM OF SIGNAL BACKPLATE IS 18 FT.

AIRPORT AND CUSHMAN SIGNAL POLE ELEVATIONS – LOOKING NORTH
NTS

SIGNAL PROFILES

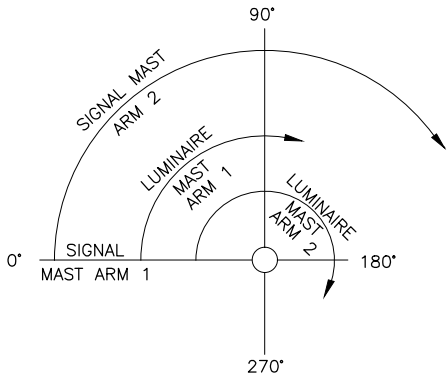
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5/29/2020

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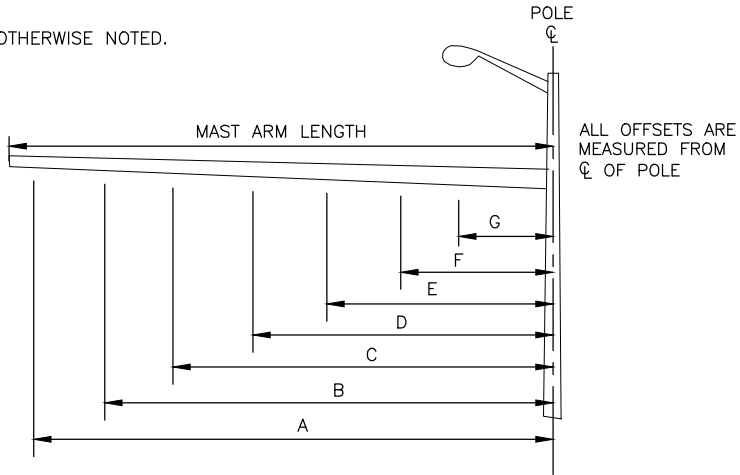
POLE-POST DESIGN LOADING SCHEDULE												
POLE NO.	CORNER	ILLUMINATION # ARM L. (FT.)	SIGNAL ARM L (FT.)		A	B	C	D	E	F	G	REMARKS
1	NE		45'	SIG. OR SIGN	SIGNAL	SIGNAL	RADAR	SIGNAL	SIGN			
				LOC. OFFSET	41.2	29.2	23.2	17.2	8.2			
				LxW OR S.F.	14.10	11.50	1.00	11.50	18.00			
2	SE		65'	SIG. OR SIGN	SIGNAL	RADAR	SIGNAL	RADAR	SIGNAL	SIGN		
				LOC. OFFSET	62.1	41.1	38.1	32.1	26.1	12.3		
				LxW OR S.F.	14.10	1.00	11.50	1.00	11.50	18.00		
3	SW	LUMINAIRE ARM 1-22'	45'	SIG. OR SIGN	SIGNAL	SIGNAL	RADAR	SIGN				LUMINAIRE ARM 1 @ 0' MOUNTING HEIGHT @ 40'
				LOC. OFFSET	39.3	27.2	18.7	9.7				
				LxW OR S.F.	14.10	11.50	1.00	18.00				
4	NW	LUMINAIRE ARM 1-22' LUMINAIRE ARM 2-22'	65'	SIG. OR SIGN	SIGNAL	RADAR	SIGNAL	RADAR	SIGNAL	SIGN		LUMINAIRE ARM 1 @ 0' MOUNTING HEIGHT @ 40' LUMINAIRE ARM 2 @ 270' MOUNTING HEIGHT @ 40'
				LOC. OFFSET	61.3	40.3	37.3	31.3	25.3	14.0		
				LxW OR S.F.	14.10	1.00	11.50	1.00	11.50	18.00		

POLE-POST DESIGN LOADING SCHEDULE NOTES:

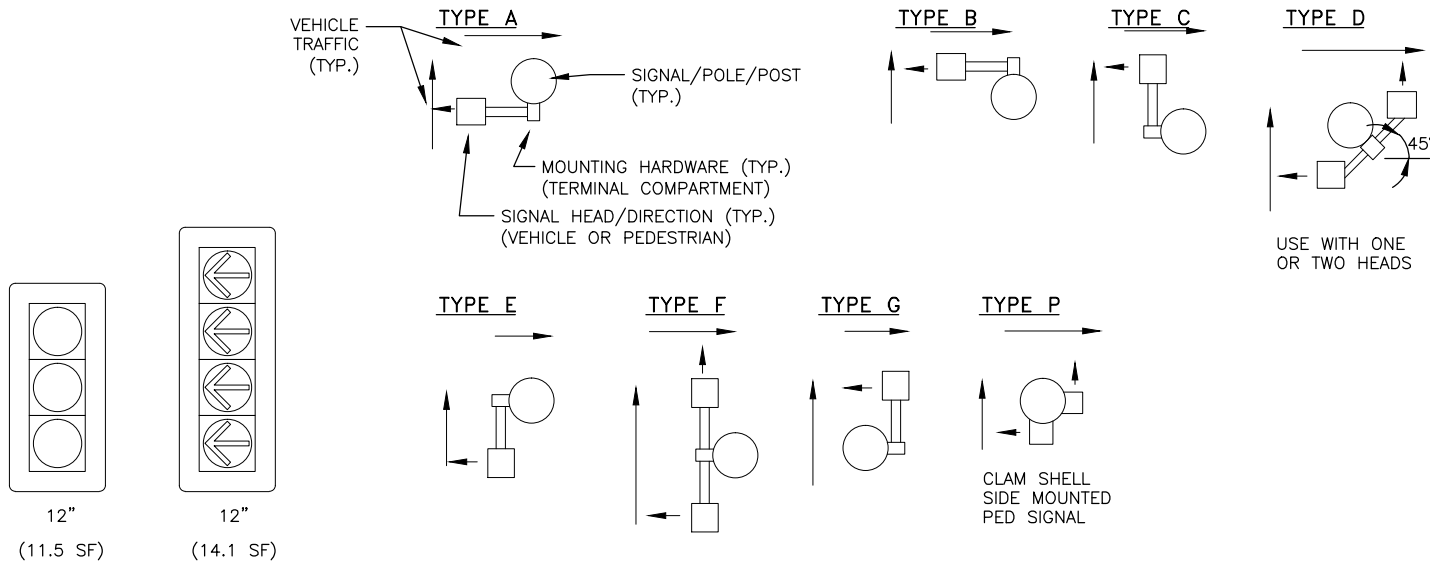
1. BOTH SIGNAL AND ILLUMINATION MAST ARMS ARE ORIENTED IN THE SAME DIRECTION UNLESS OTHERWISE NOTED.
2. ORIENT SIGNAL MAST ARM(S) 90° TO THE CL OF THE ROADWAY UNLESS NOTED OTHERWISE.



SIGNAL & LUMINAIRE ARM ORIENTATION



POLE/POST SIGNAL HEAD SIDE MOUNTING TYPES
NTS



SIGNAL HEAD CONFIGURATIONS

(AREAS ARE FOR WIND LOAD CALCULATIONS)
(ARROWS AND BALL INDICATIONS ARE INTERCHANGEABLE)

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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SIGNAL SIGN SCHEDULE									
SIGN NO.	LOCATION		ASDS CODE	LEGEND	SIZE HxV (INCHES)	AREA (SQ FT)	BRACING/FRAMING		REMARKS
	POLE NO.	OFFSET					BRACED	FRAMED	
1	1	8.2	D3-1	Airport Way	108x24	18.00			
2	2	12.3	D3-1	Cushman St	108x24	18.00			
3	3	9.7	D3-1	Airport Way	108x24	18.00			
4	4	14.0	D3-1	Cushman St	108x24	18.00			
SUBTOTAL SIGNAL SIGNS						72.00			

SIGNAL SIGN SCHEDULE NOTES:

1. LOCATION OFFSETS ARE FROM CENTER OF SIGN TO CL OF SIGNAL POLE.

POLE/POST NO.	FACE NO.	SIGNAL HEAD SCHEDULE															
		INDICATIONS										MOUNTING				REMARKS	
		12" BALL			12" ARROW				8" BALL			MAST ARM		SIDE MTNG. TYPE	TOP OF POST		
		R	Y	G	R	Y	FYA	G	R	Y	G	LOC. OFFSET	ELEV. PLUMB				
1	41	X	X	X											D		
	42	X	X	X								17.2	X				
	43	X	X	X								29.2	X				
	71				L	L	L	L				41.2	X				
2	21	X	X	X											D		
	32				L	L	L	L							D		
	22	X	X	X								26.1	X				
	23	X	X	X								38.1	X				
	51				L	L	L	L				62.1	X				
3	81	X	X	X											D		
	12				L	L	L	L							D		
	82	X	X	X								27.2	X				
	31				L	L	L	L				39.3	X				
4	61	X	X	X											D		
	72				L	L	L	L							D		
	62	X	X	X								25.3	X				
	63	X	X	X								37.3	X				
	11				L	L	L	L				61.3	X				
5	52				L	L	L	L							X		

SIGNAL HEAD SCHEDULE NOTES:

1. LOCATION OFFSETS ARE FROM CENTER OF SIGNAL HEAD TO CL OF SIGNAL POLE.
2. FYA = FLASHING YELLOW ARROW.

POLE/POST NO.	FACE NO.	PED SIGNAL HEAD SCHEDULE	
		MOUNTING TYPE	REMARKS
1	69	P	
2	28	P	
3	29	P	
4	68	P	
5	48	P	
6	49	P	
7	88	P	
8	89	P	

SIGNAL SUMMARY

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND

5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\C\Sheets\64078_H31-H32_SIG SUMM-H32 Fri, May/29/20 06:14pm

(Gordon Dufseth) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H32	H33

BASE & JUNCTION BOX SCHEDULE												
LOCATION		DESCRIPTION			BASE TYPE*			JUNCTION BOX TYPE				REMARKS
STATION	OFFSET	POLE NO.	JUNCTION BOX NO.	CONTROLLER	CIDH	P	A	IA	II	III	IV	
"A1" 161+54.6	63.9' LT	1			X							
"A1" 161+92.9	52.1' RT	2			X							
"A1" 161+04.1	46.6' RT	3			X							
"A1" 160+80.4	66.2' LT	4			X							
"A1" 161+76.9	57.0' LT	5					X					
"A1" 161+99.3	44.1' RT	6					X					
"A1" 160+79.4	44.1' RT	7					X					
"A1" 160+71.0	56.6' LT	8					X					
"A1" 161+66.5	53.9' LT		1							X		
"A1" 161+92.8	66.9' RT		2							X		
"A1" 160+95.4	43.5' RT		3						X			
"A1" 160+71.0	63.4' LT		4						X			
"A1" 162+42.5	78.9' RT		AO						X			INSTALL ADJACENT TO LOAD CENTER 'CA'
"A1" 162+58.0	68.6' RT			X						X		

NOTES:

1. *BASE TYPE ABBREVIATIONS:
P = PRECAST BASE (FOUNDATION)
A = TYPE "A" SIGNAL BASE POST FOUNDATION. SEE STD. DWG, T-31.00
CIDH = CAST IN DRILLED HOLE
2. MAINTAIN 5' MINIMUM DISTANCE FROM SIGNAL POLE FOUNDATION.

OPTICOM DETECTOR SCHEDULE					
LOCATION	DET. NO.	PHASE CALL	FACING DIR.	PREEMPTOR PRIORITY	REMARKS
ON TOP OF SIGNAL HEAD 43	1	4, 7	SOUTH		
ON TOP OF SIGNAL HEAD 23	2	2, 5	WEST		
ON TOP OF SIGNAL HEAD 82	3	3, 8	NORTH		
ON TOP OF SIGNAL HEAD 63	4	1, 6	EAST		

 OPTICOM DETECTOR NUMBER

RADAR DETECTION SCHEDULE						
DET. NO.	PHASE CALL	TYPE	FACING DIR.	POLE NO.	LOCATION	RADAR TYPE
1	1&6	STOP BAR	NORTHEAST	1	SIGNAL MAST ARM	SMARTSENSOR MATRIX
2	4&7	STOP BAR	SOUTHEAST	3	SIGNAL MAST ARM	SMARTSENSOR MATRIX
3	2&5	STOP BAR	SOUTHWEST	4	SIGNAL MAST ARM	SMARTSENSOR MATRIX
4	3&8	STOP BAR	NORTHWEST	1	SIGNAL MAST ARM	SMARTSENSOR MATRIX
1A	6	ADVANCE	EAST	4	SIGNAL MAST ARM	SMARTSENSOR ADVANCE EXTENDED RANGE
3A	2	ADVANCE	WEST	2	SIGNAL MAST ARM	SMARTSENSOR ADVANCE EXTENDED RANGE

 RADAR DETECTOR NUMBER

FLASH PROGRAM COLOR								
PHASE	1	2	3	4	5	6	7	8
COLOR	R	R	R	R	R	R	R	R

PEDESTRIAN DETECTION SCHEDULE			
POLE	PUSH BUTTON	PHASE	REMARKS
1	1	6	SEE NOTE 2
5	2	4	SEE NOTE 1
6	3	4	SEE NOTE 1
2	4	2	SEE NOTE 2
3	5	2	SEE NOTE 2
7	6	8	SEE NOTE 1
8	7	8	SEE NOTE 1
4	8	6	SEE NOTE 2

PEDESTRIAN DETECTION NOTES:

1. INSTALL A R10-3eL SIGN ABOVE PEDESTRIAN PUSH BUTTON. SIGN SHALL NOT BE MEASURED FOR PAYMENT AND IS SUBSIDIARY TO TRAFFIC SIGNAL PAY ITEMS.
2. INSTALL A R10-3eR SIGN ABOVE PEDESTRIAN PUSH BUTTON. SIGN SHALL NOT BE MEASURED FOR PAYMENT AND IS SUBSIDIARY TO TRAFFIC SIGNAL PAY ITEMS.

RADAR DETECTION EQUIPMENT	
QTY	DESCRIPTION
2	SMARTSENSOR ADVANCE EXTENDED RANGE (WX-SS-200E)
4	SMARTSENSOR MATRIX (WX-SS-225)
6	PELCO MOUNT (WX-SS-611)
6	SMARTSENSOR 6-CONDUCTOR CABLE (WX-SS-704-XXX)
0	SMARTSENSOR ADVANCE (WX-SS-200V)
NEMA CLOSURE EQUIPMENT	
QTY	DESCRIPTION
0	CLICK 710, SMARTSENSOR 6-CONDUCTOR CABLE JUNCTION BOX (WX-SS-710)
CABINET EQUIPMENT	
QTY	DESCRIPTION
2	CLICK! 650, CABINET INTERFACE (WX-CLK-650)
2	SLDC CABLES (310-0411)
ADDITIONAL EQUIPMENT	
QTY	DESCRIPTION
1	SMARTSENSOR MANAGER ADVANCE SOFTWARE (WX-550-0001)
1	SMARTSENSOR MANAGER MATRIX SOFTWARE (WX-550-0004)

SIGNAL SUMMARY

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

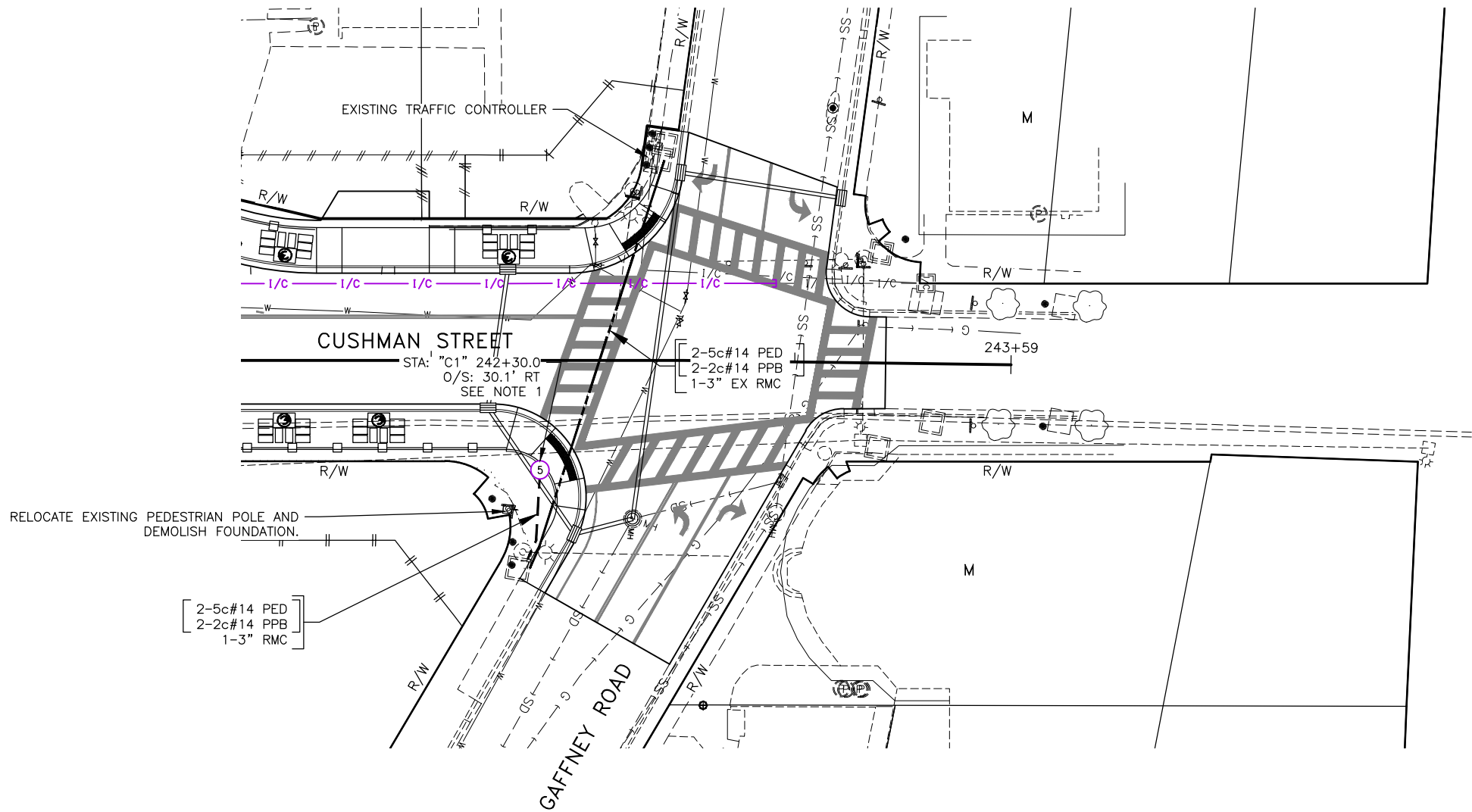
5/29/2020
PLANS-IN-HAND

5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\C\Sheets\64078_H33_ SIGNAL MODIFICATIONS-H33 Fri, May/29/20 06:15pm

(Gordon Dufseth) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	H33	H33



NOTES:

1. RELOCATE THE EXISTING POLE, ON A NEW FOUNDATION, IN KIND WITH THE EXISTING PEDESTRIAN SIGNALS, PUSH BUTTONS, AND SIGNS IN THEIR EXISTING LOCATIONS. THE POLE SHALL BE ORIENTED SO PEDESTRIAN SIGNALS FACE CROSSWALKS. INSTALL NEW CONDUIT AS SHOWN AND REPULL NEW CONDUCTORS BACK TO EXISTING TRAFFIC CONTROLLER.
2. ADJUST DETECTION FOR NORTHBOUND TRAFFIC AS NEEDED TO ACCOMMODATE NEW LANE LOCATION.
3. ADJUST SIGNAL HEADS AND SIGNS FOR NORTHBOUND TRAFFIC AS NEEDED TO ACCOMIDATE NEW LANE LOCATION.

SIGNAL MODIFICATIONS

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND

5/29/2020

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	L1	L17

BOULDER SCHEDULE			
SYMBOL	TYPE	SIZE	QUANTITY
Ø	SMALL	2'X2'X3'	8
Ø	MEDIUM	3'X3'X4'	6

NOTES
SEE DETAILS. BOULDER MASSES INCLUDE SMALL AND MEDIUM BOULDERS. LOCATION AND ORIENTATION MAY BE FIELD ADJUSTED BY THE ENGINEER. BOULDERS TO BE GRAY TO DARK GRAY ANGULAR ROCK WITH NATURAL FRACTURES. DRILL HOLES SHALL NOT BE VISIBLE.

PLANT SCHEDULE					
COMMON NAME	BOTANICAL NAME	QUANTITY	SPACING (MIN)	SIZE	NOTES
TREES					
BIRCH, CLUMP	BETULA PAPYRIFERA	20	10' OC	2-3" CAL	SEE NOTE 2
BIRCH, SINGLE STEM	BETULA PAPYRIFERA	75	10' OC	2" CAL	SEE NOTE 2
BIRCH, TYPE A	BETULA PAPYRIFERA	12	10' OC	2" CAL	SEE NOTE 2
CRABAPPLE	MALUS SP.	36	10' OC	2" CAL	
LARCH	LARIX LARCINIA	11	10' OC	8' TALL	SEE NOTE 3
SPRUCE, WHITE	PICEA GLAUCA	6	AS SHOWN	2' TALL	SEE NOTE 3
SPRUCE, WHITE	PICEA GLAUCA	9	10' OC	6' TALL	SEE NOTE 3
SHRUBS					
COTONEASTER	COTONEASTER LUCIDUS	68	3' OC	36" TALL	NURSERY GROWN
LILAC	SYRINGA VULGARIS	54	4' OC	34" TALL	NURSERY GROWN
ROSE	ROSA ACICULARIS	6	3' OC	24" TALL	NURSERY GROWN
SPIREA, ALASKA	SPIRAEA BEAUVERDIANA	97	3' OC	18" TALL	NURSERY GROWN

- ALL PLANTS SHALL MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI) Z60.1-2014 (AMERICANHORT. 2130 STELLA COURT, COLUMBUS OH 43215 WWW.AMERICANHORT.ORG.
- ALL BIRCH SHALL HAVE A CANOPY NO LESS THAN ONE HALF THE OVERALL HEIGHT. CLUMP BIRCH TO BE MIN. 2 TRUNKS WITH TOTAL CALIPER MEASURE OF 6" WITH NO TRUNK LESS THAN 2" CALIPER.
- PLANTS SHALL BE WEED FREE AT TIME OF PLANTING.
- HEIGHT TO SPREAD RATIO OF EVERGREEN TREES AND LARCH EQUAL 5 (HEIGHT):3 (SPREAD). EVERGREENS AND LARCH TO BE NURSERY GROWN, FULLY BRANCHED TO GROUND AND HAVE A MINIMUM OPACITY OF 75% FOR EVERGREENS AND 50% FOR LARCH.
- MULCH CONTINUOUSLY THROUGHOUT ALL PLANTING BEDS WITH 3" SHREDDED BARK MULCH. SEE SPECIFICATIONS FOR MULCH, MULCH SHALL BIODEGRADE WITHIN 3 YEARS; KEEP MULCH 6" AWAY FROM STEMS AND TRUNKS. TRANSITION MULCH TO ADJACENT SURFACES. SEE MULCH LIMITS DETAIL.
- SEE SHEET LX FOR TOPSOIL AND SEED INFORMATION.
- SEE PLANTING DETAILS FOR ADDITIONAL INFORMATION.

SIGN SCHEDULE				
SIGN #	TYPE	LOCATION	FRAME DETAIL	PANEL DETAIL
VO2	DX-1	STA X+XX XX.XX LT	XX	X/LX
VO3	DX-1	STA X+XX XX.XX LT	XX	X/LX

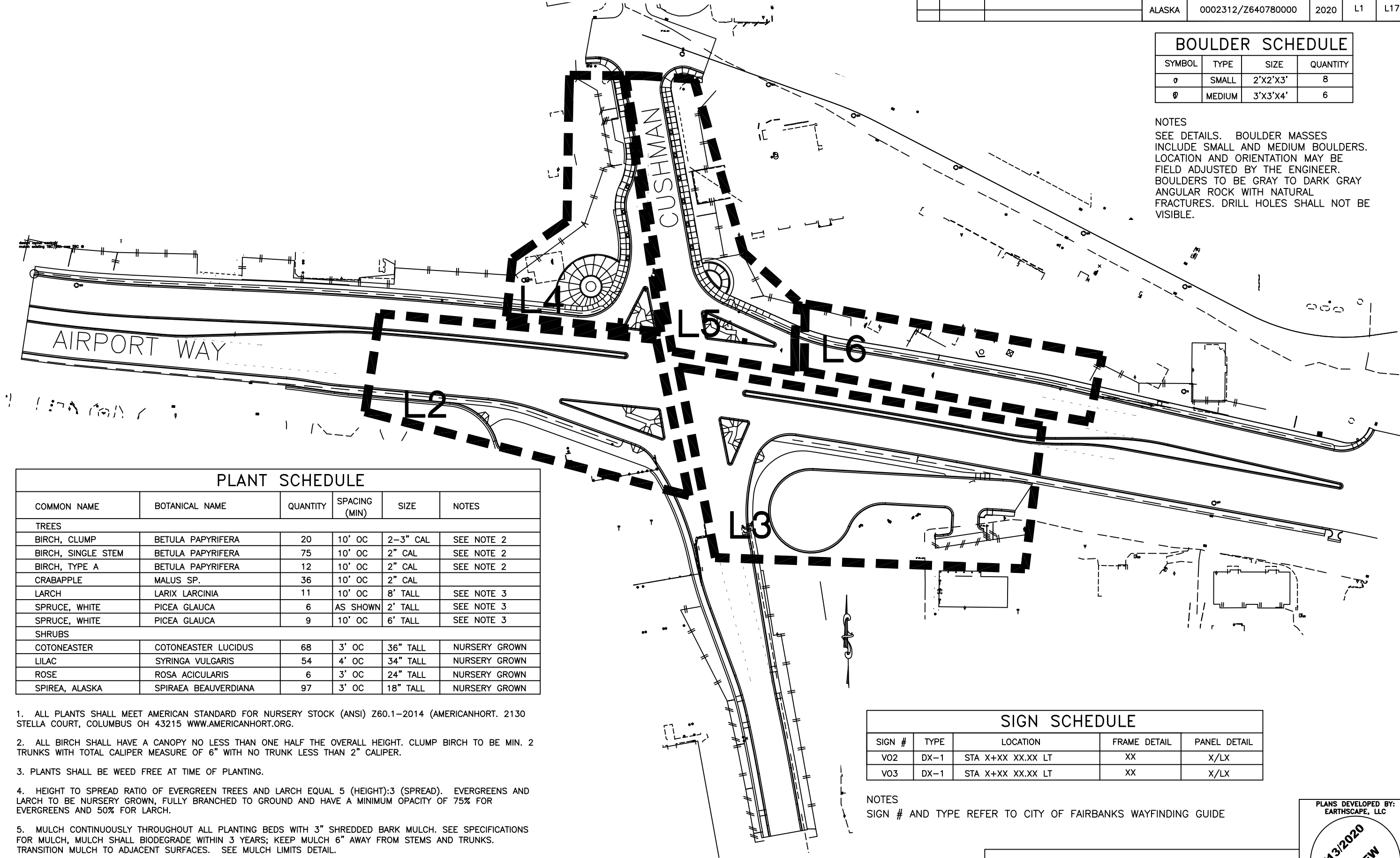
NOTES
SIGN # AND TYPE REFER TO CITY OF FAIRBANKS WAYFINDING GUIDE

LANDSCAPE PLAN

PLANS DEVELOPED BY:
EARTHSCAPE, LLC

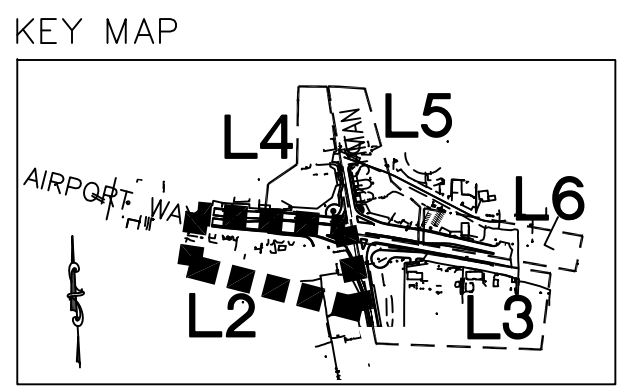
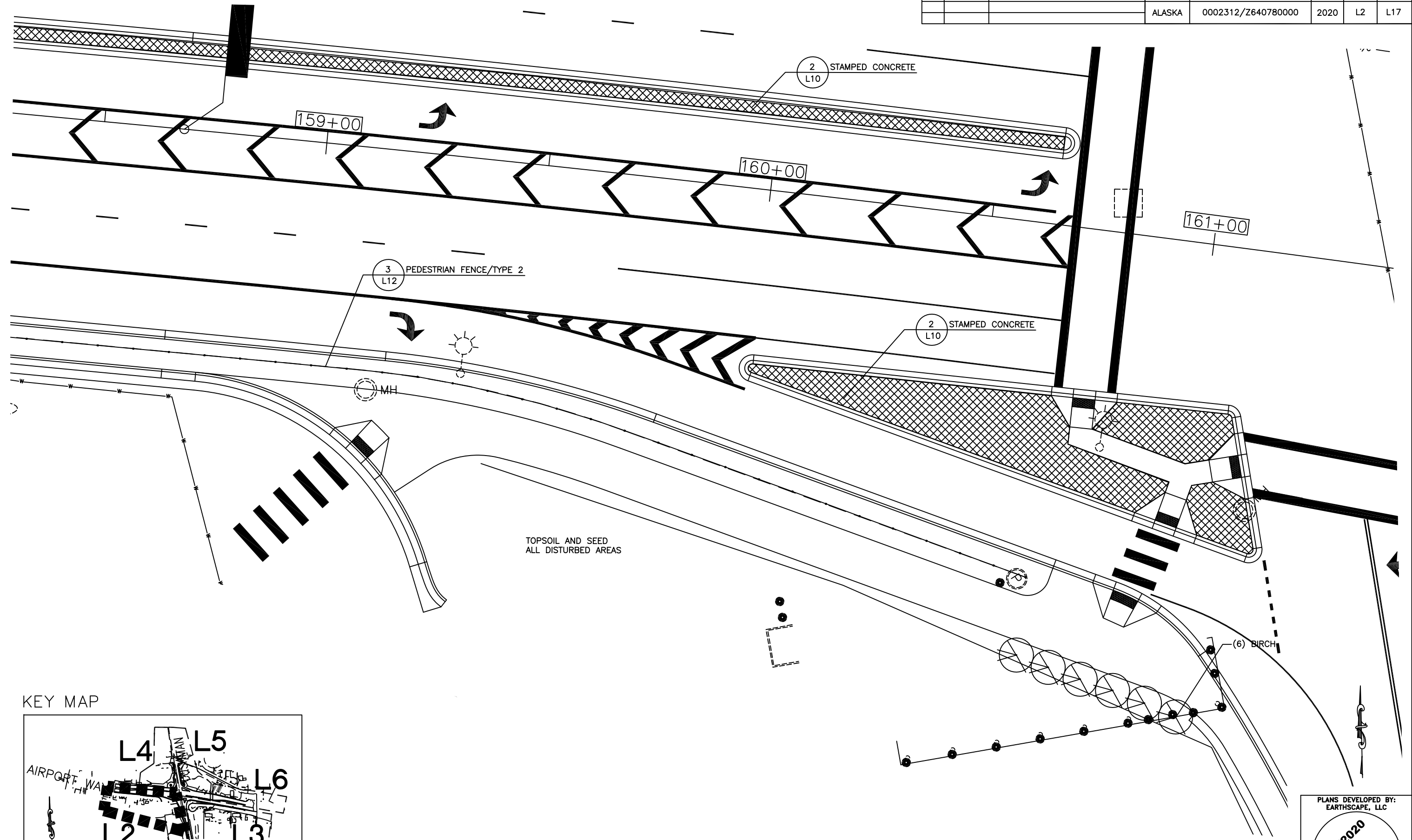
5/13/2020
REVIEW
PIH

5/15/20



PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd., Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
\\earth-arv\Projects\Airport Cushman\landscape- airport way cushion\L-1 75- airport cushion-LAYOUT1 Wed, May/13/20 05:51pm (Elise) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	L2	L17



LANDSCAPE PLAN

PLANS DEVELOPED BY:
EARTHSCAPE, LLC

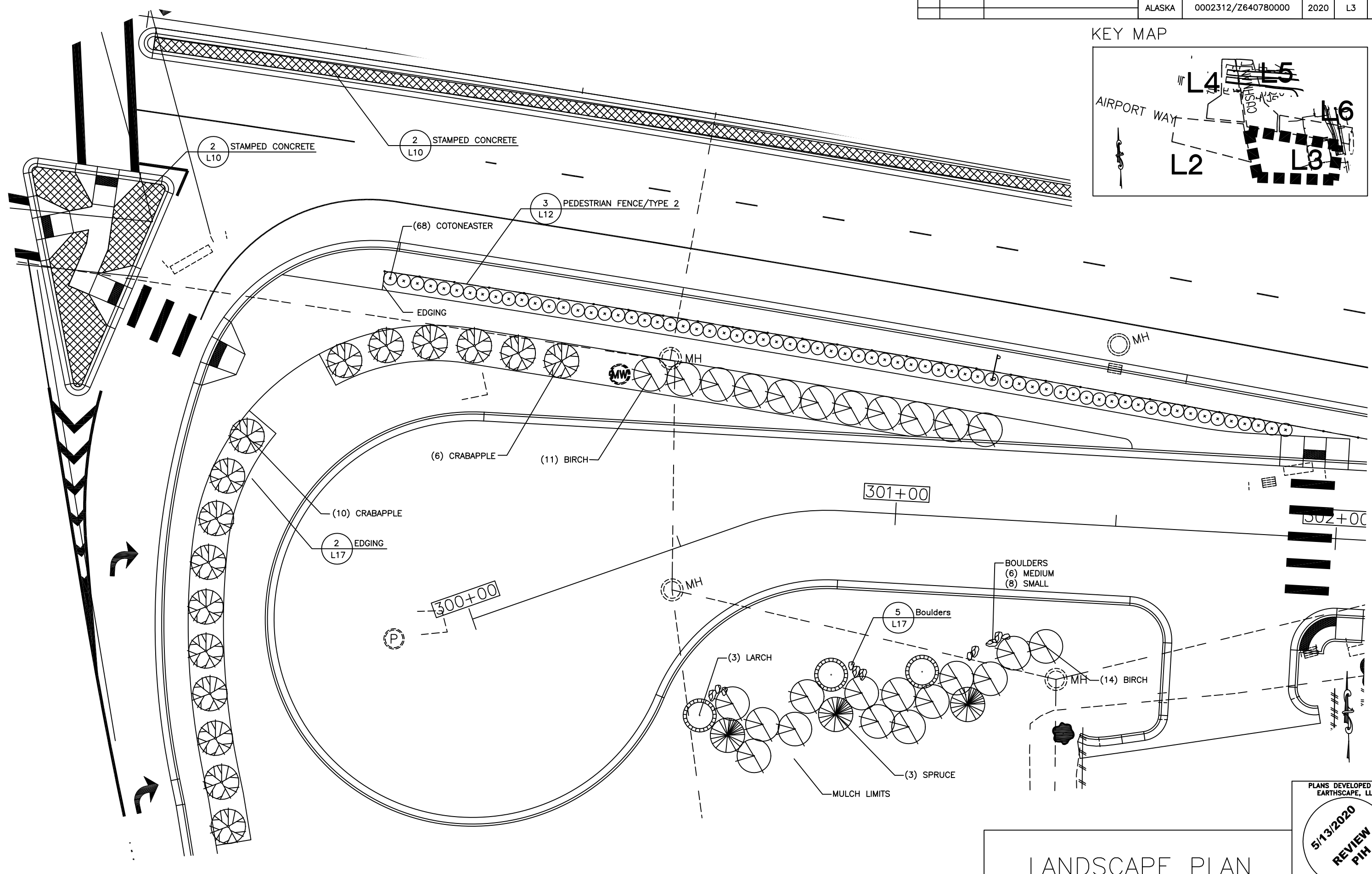
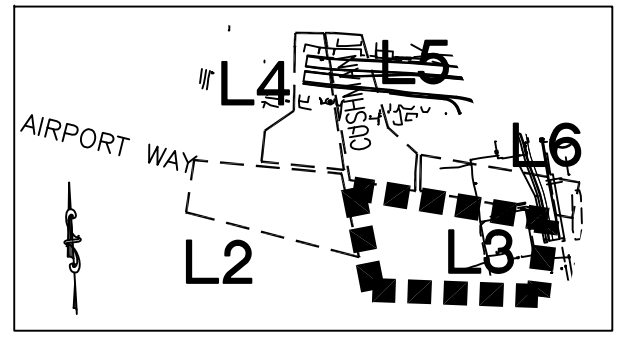
5/13/2020
REVIEW
PIH

5/15/20

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
\\earth-arv\Projects\Airport Cushman\Landscape- airport way cushion-L-1 75- airport cushion-LAYOUT1 Wed, May/13/20 05:52pm (Elise) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	L3	L17

KEY MAP



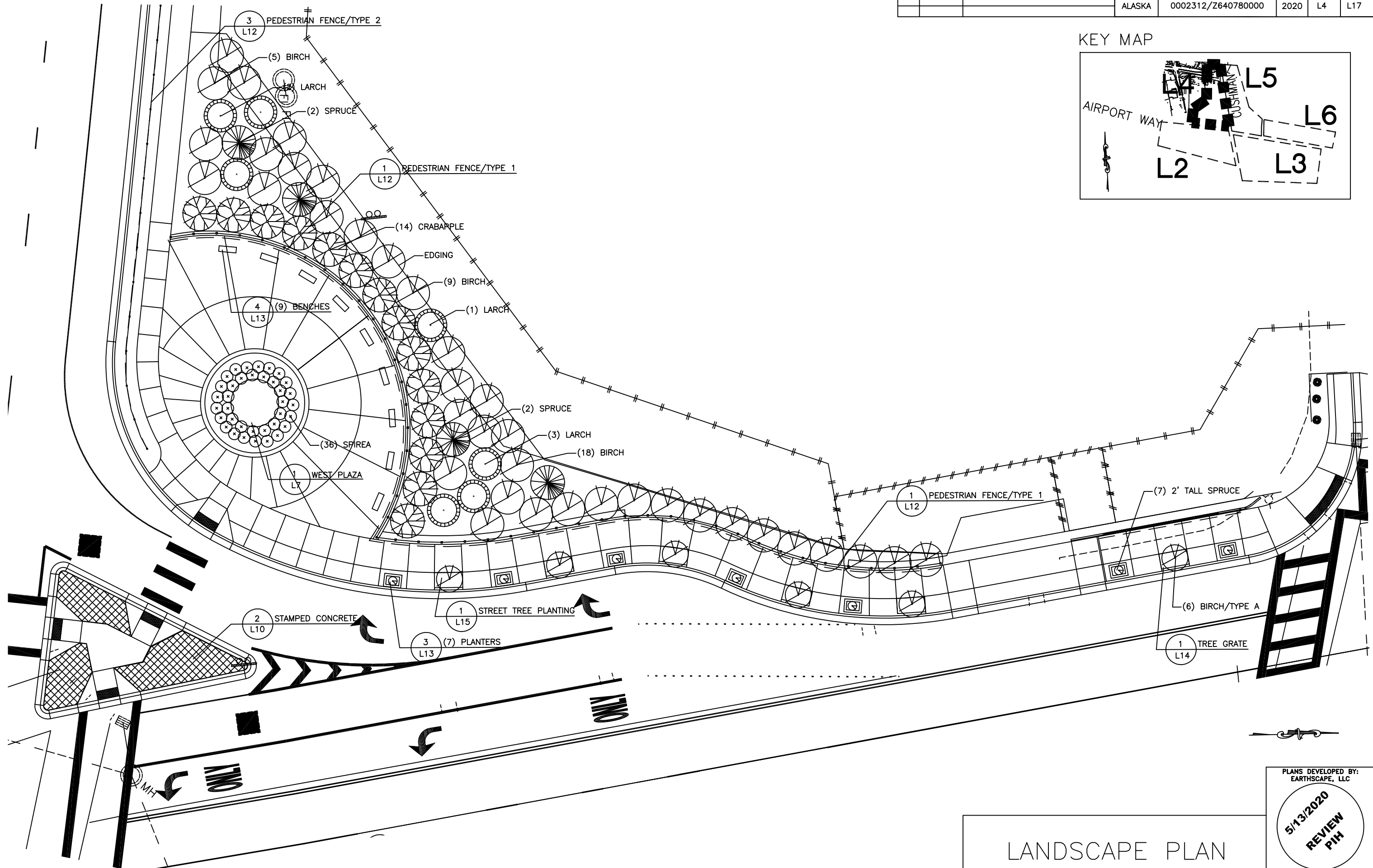
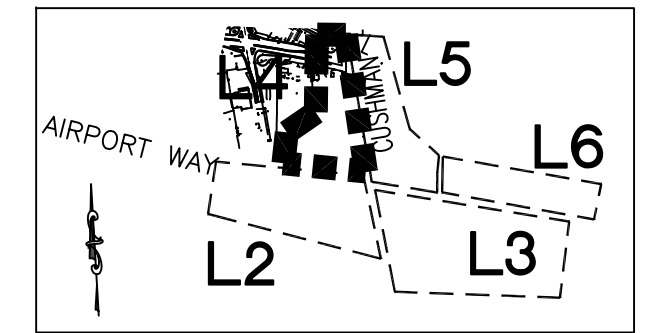
LANDSCAPE PLAN

PLANS DEVELOPED BY:
EARTHSCAPE, LLC

5/13/2020
REVIEW
PIH

5/15/20

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	L4	L17



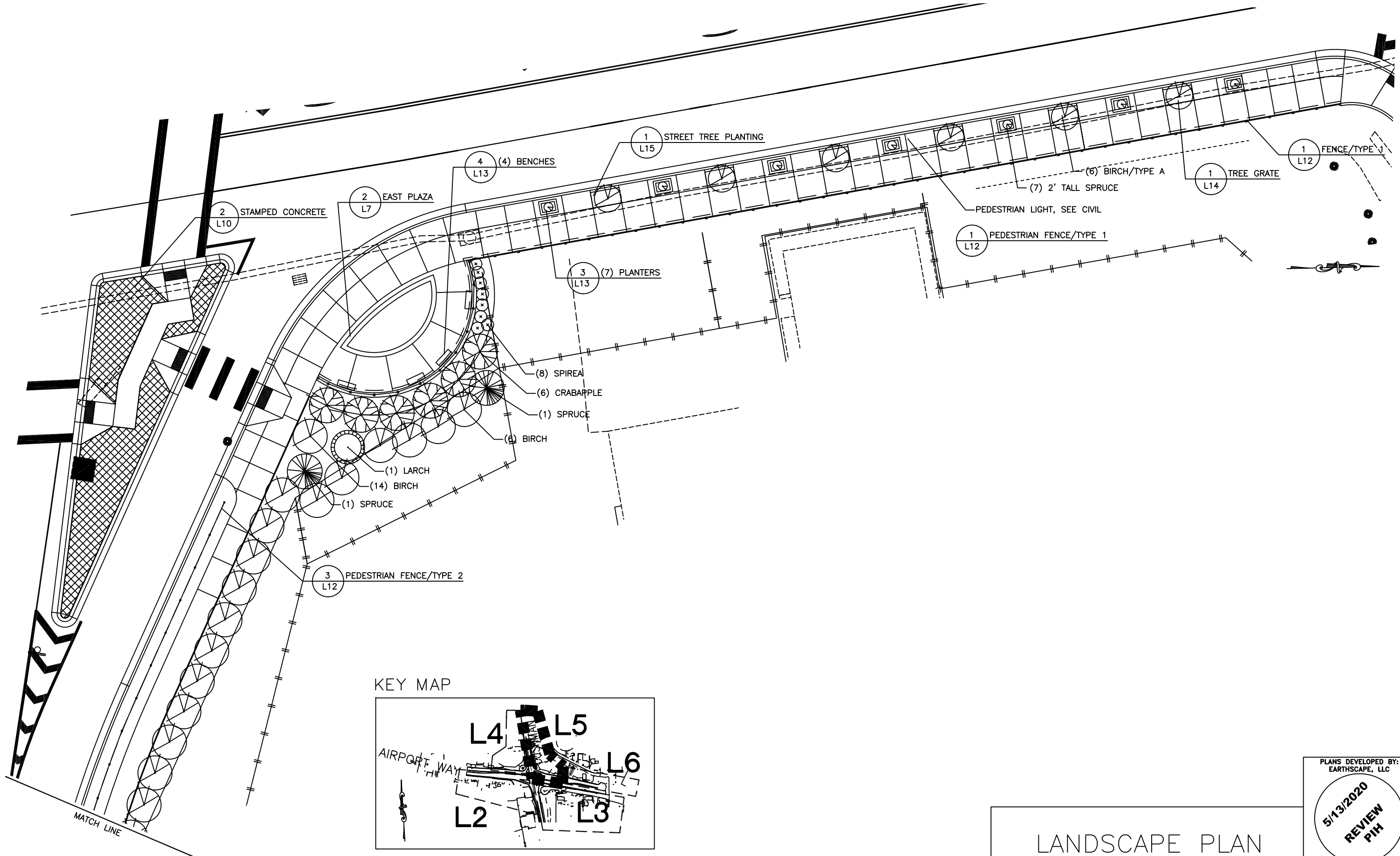
LANDSCAPE PLAN

5/13/2020
REVIEW
PIH

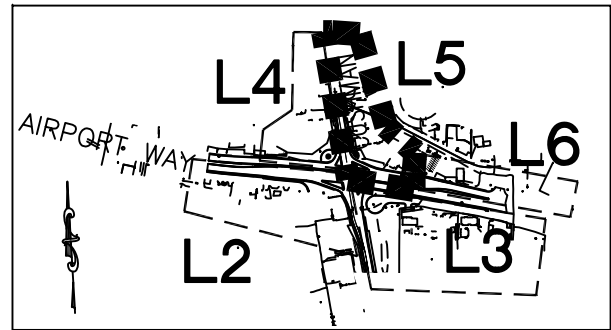
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PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
\\earth-arv\Projects\Airport Cushman\Landscape- airport way cushion\L-1 75- airport cushion-Layout1 Wed, May/13/20 05:53pm (Elise) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	L5	L17



KEY MAP



LANDSCAPE PLAN

PLANS DEVELOPED BY:
EARTHSCAPE, LLC

5/13/2020
REVIEW
PIH

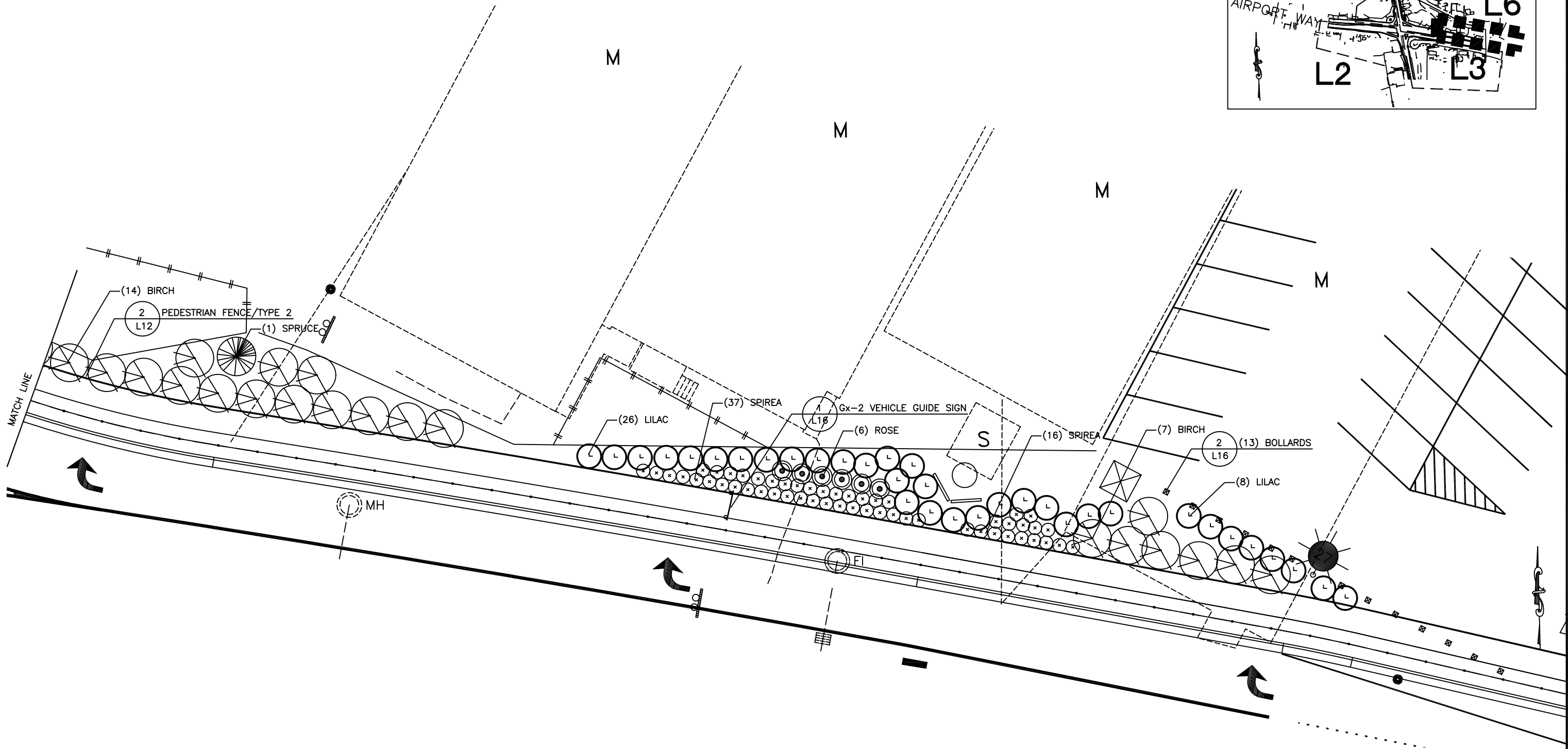
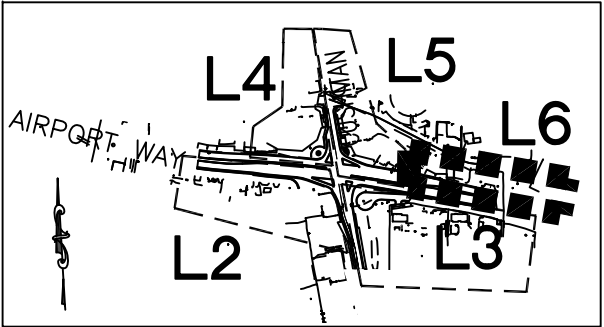
5/15/20

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
\\earth-srv\Projects\Airport Cushman\Landscape- airport way cushion\L-1 75- airport cushion-LAYOUT1 Wed, May/13/20 05:57pm

(Elise) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	L6	L17

KEY MAP



LANDSCAPE PLAN

PLANS DEVELOPED BY:
EARTHSCAPE, LLC

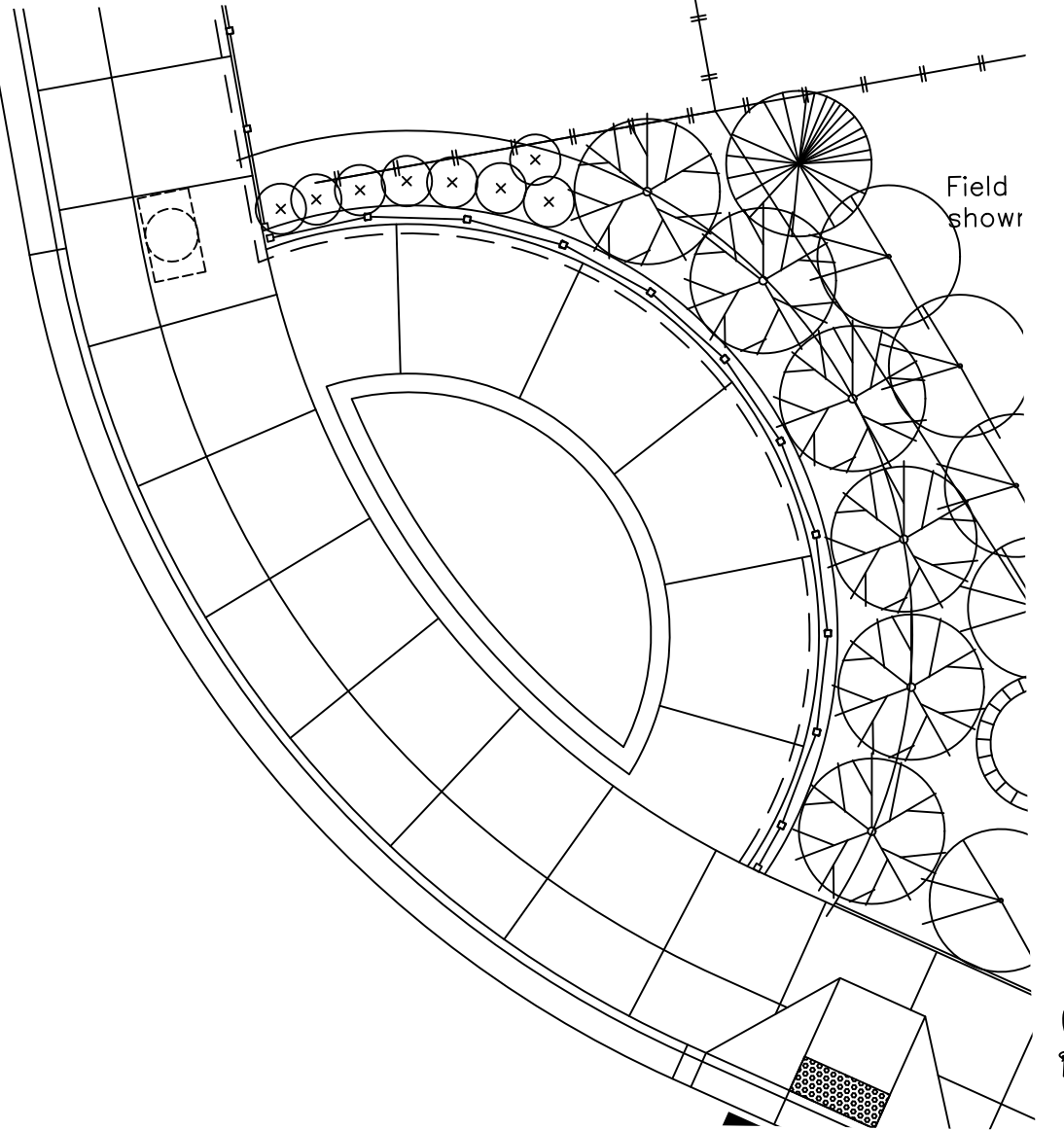
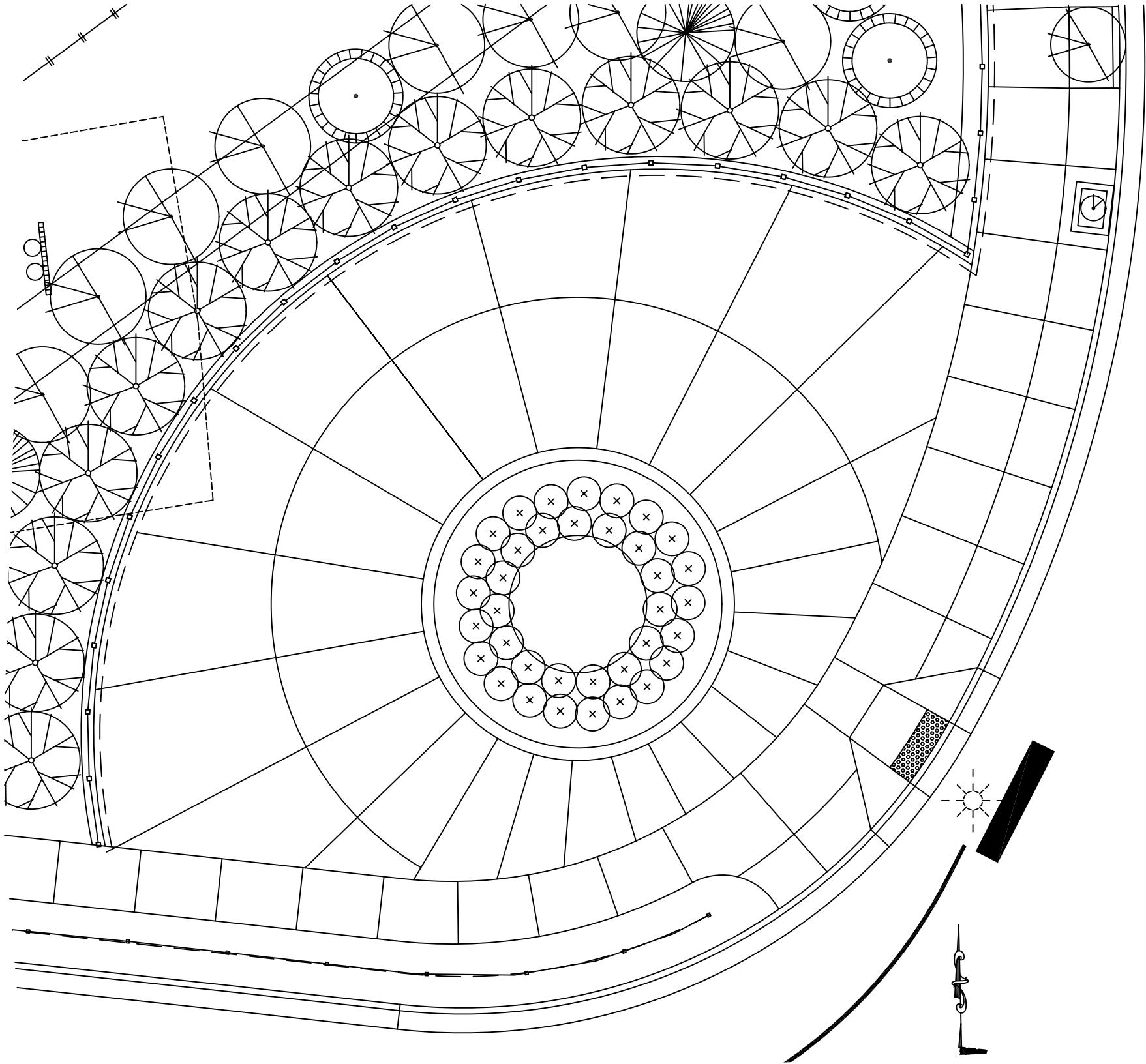
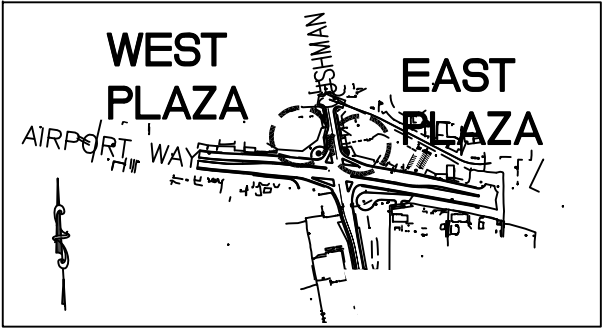
5/13/2020
REVIEW
PIH

5/15/20

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
\\earth-arv\Projects\Airport Cushman\Landscape- airport way cushman\L-1 75- airport cushman-Layout1 Wed, May/13/20 05:58pm (Elise) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	L7	L17

KEY MAP



1 WEST PLAZA LAYOUT

2 EAST PLAZA LAYOUT

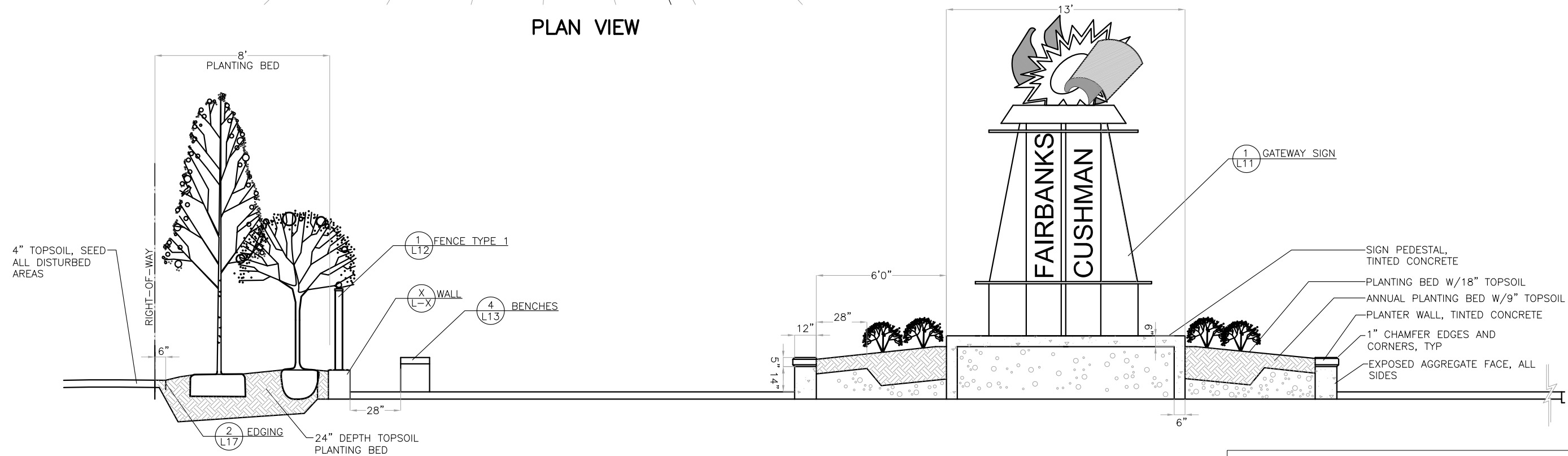
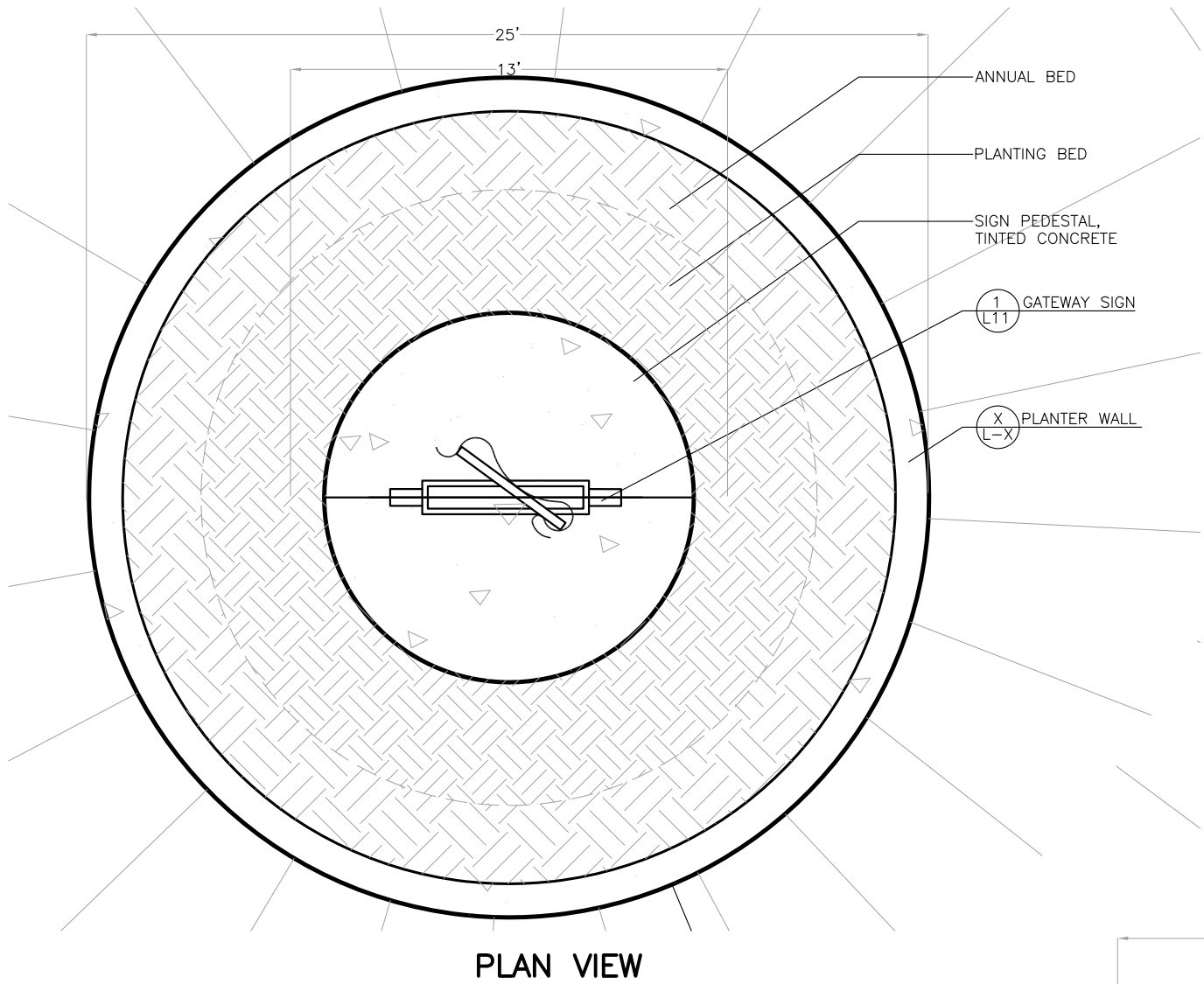
LANDSCAPE PLAN

PLANS DEVELOPED BY:
EARTHSCAPE, LLC

5/13/2020
REVIEW
PIH

5/15/20

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	XXXXX	2020	L9	L17

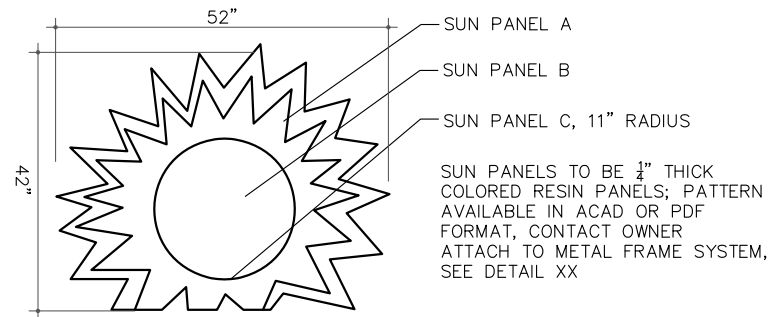
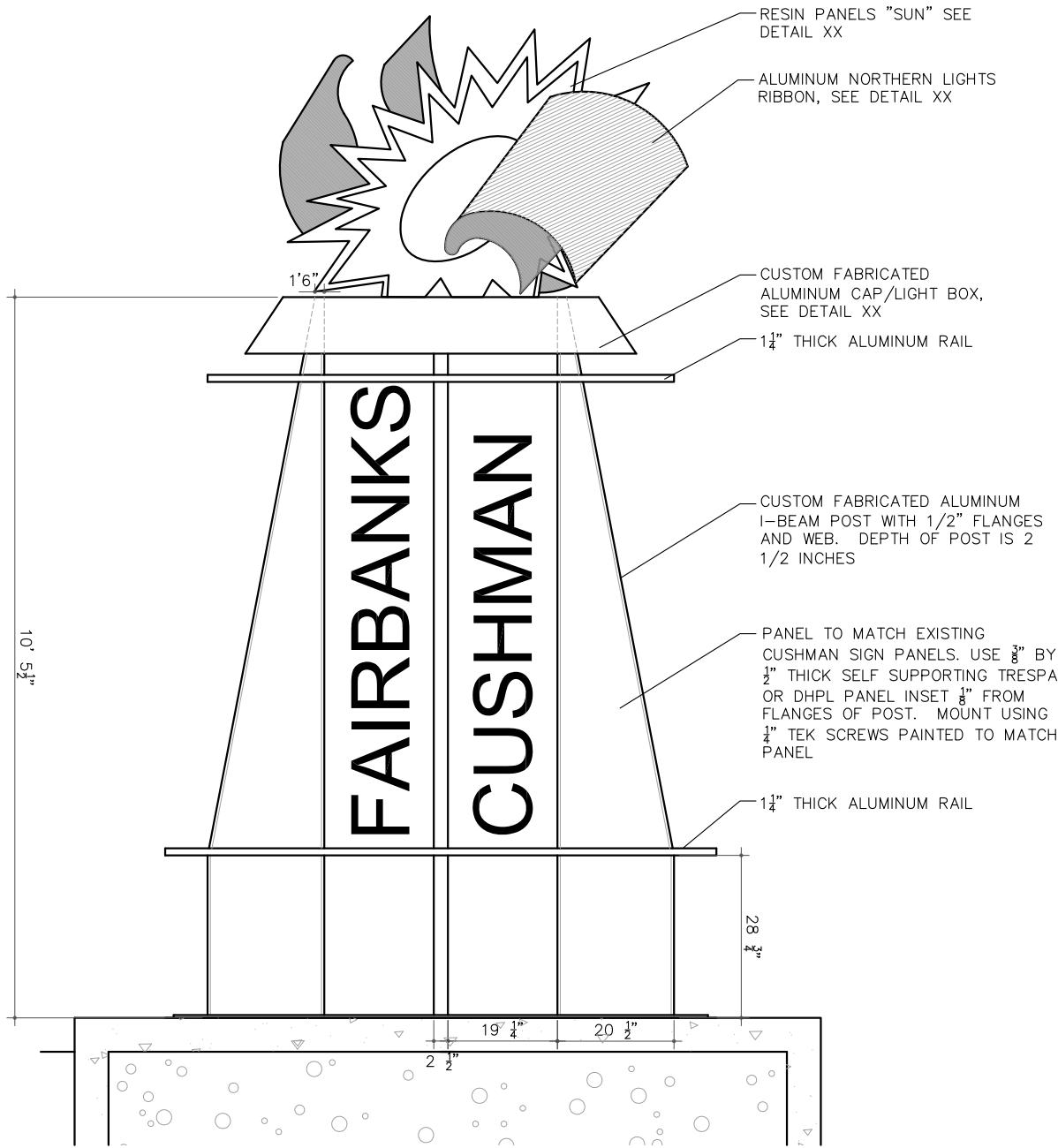


1
L9

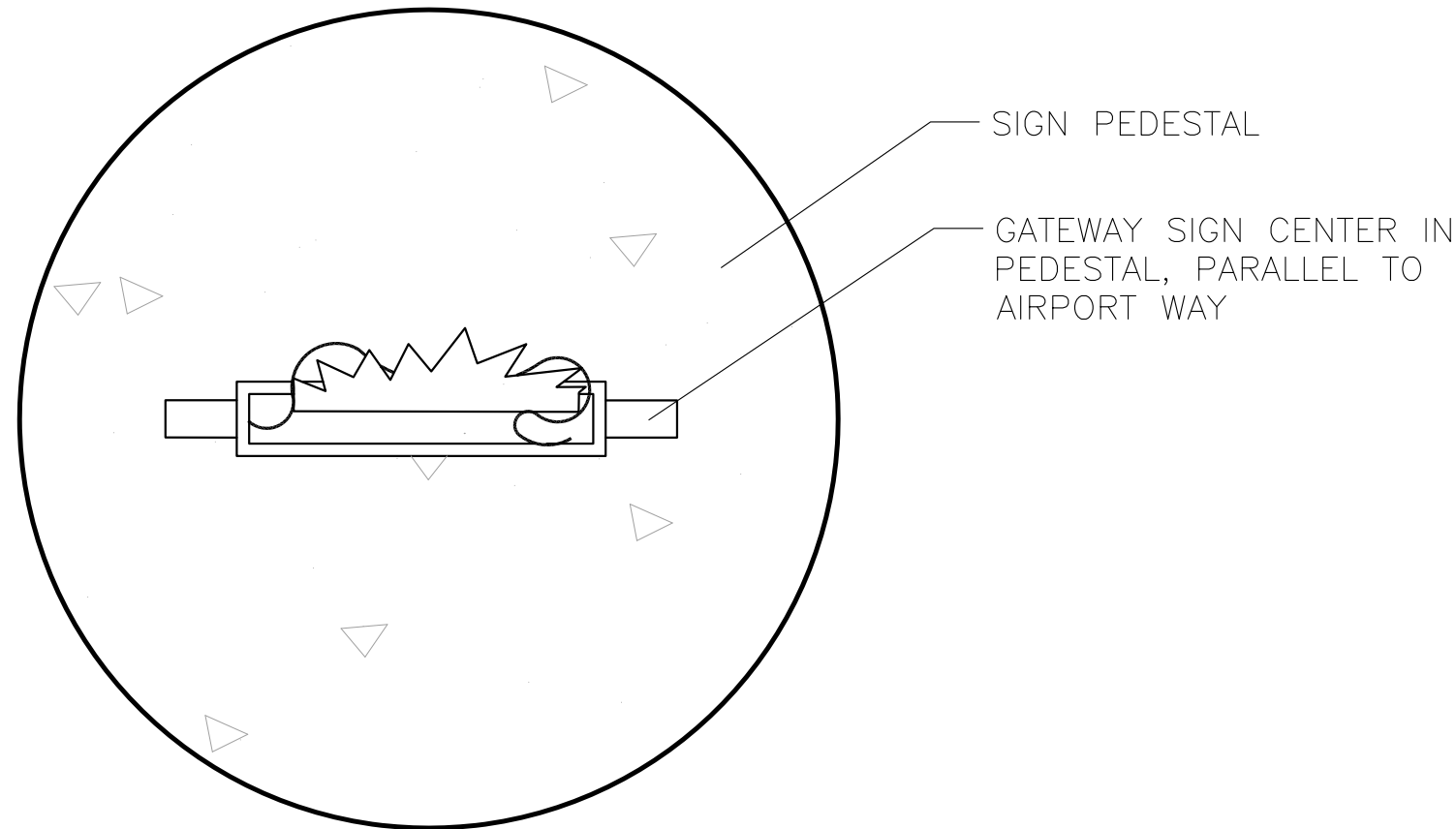
WEST PLAZA CROSS SECTION

LANDSCAPE DETAILS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	XXXXX	2020	L11	L17



PANEL DETAIL



PLAN VIEW

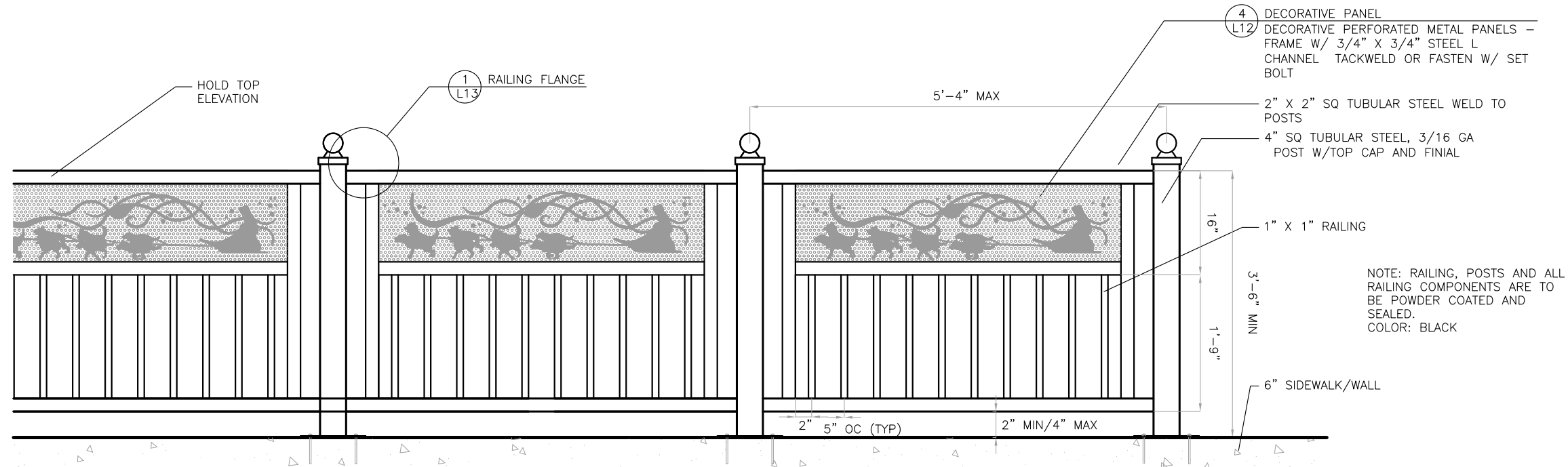
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L11

GATEWAY SIGN

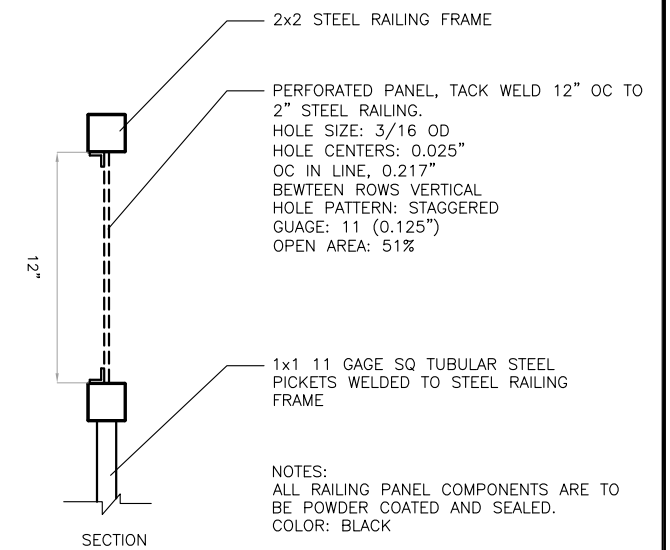
LANDSCAPE DETAILS

PLANS DEVELOPED BY: EARTHSCAPE, LLC. CERT AUTHORIZATION NO. AEC11007. 329 F ST SUITE 222, ANCHORAGE AK 99501 (907)279-2688
\\earth-srv1\Projects\Airport_Cushman\Landscape-airport_way_cushman\2.0_65.1_p_Details\Airport_Cushman-Layout1_Wed_May13_20_06:06pm

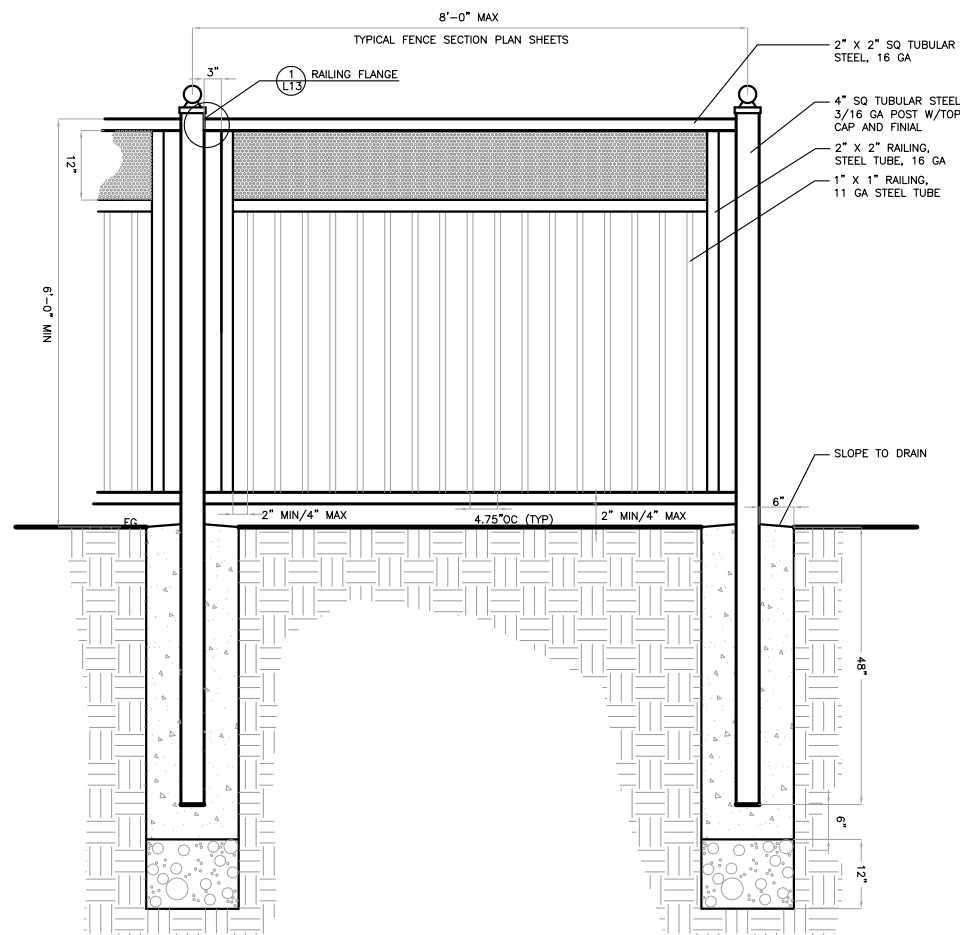
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	XXXXX	2020	L12	L17



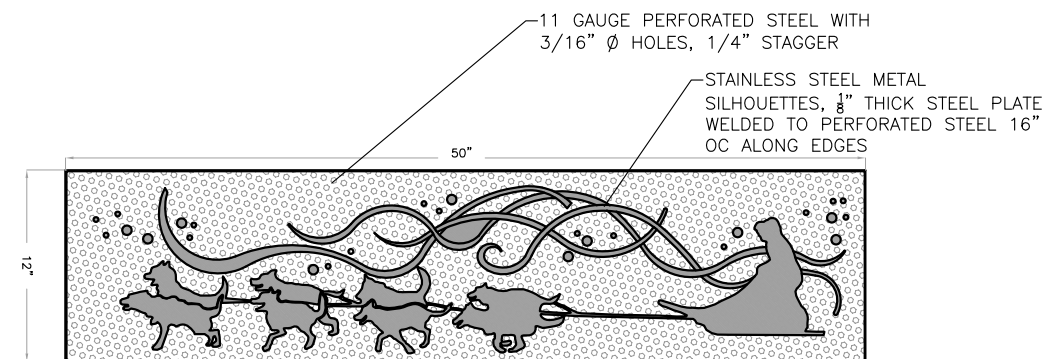
1 PEDESTRIAN FENCE TYPE 1 DETAIL



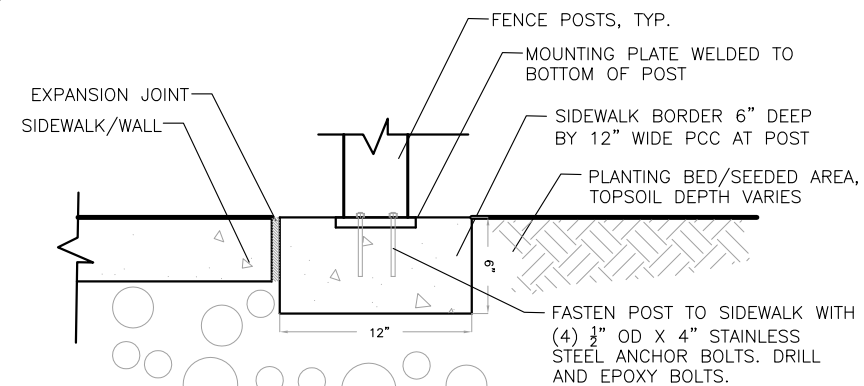
2 FENCE PANEL CONNECTION
L12



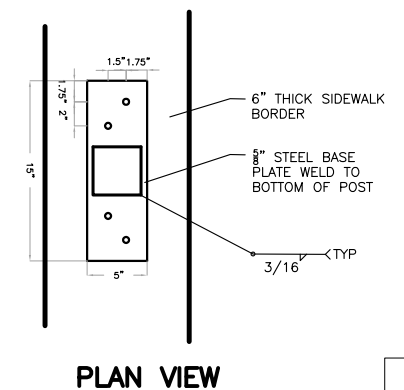
3 PEDESTRIAN FENCE TYPE 2 DETAIL



4 FENCE PANEL – TYPE 1 FENCE
L12



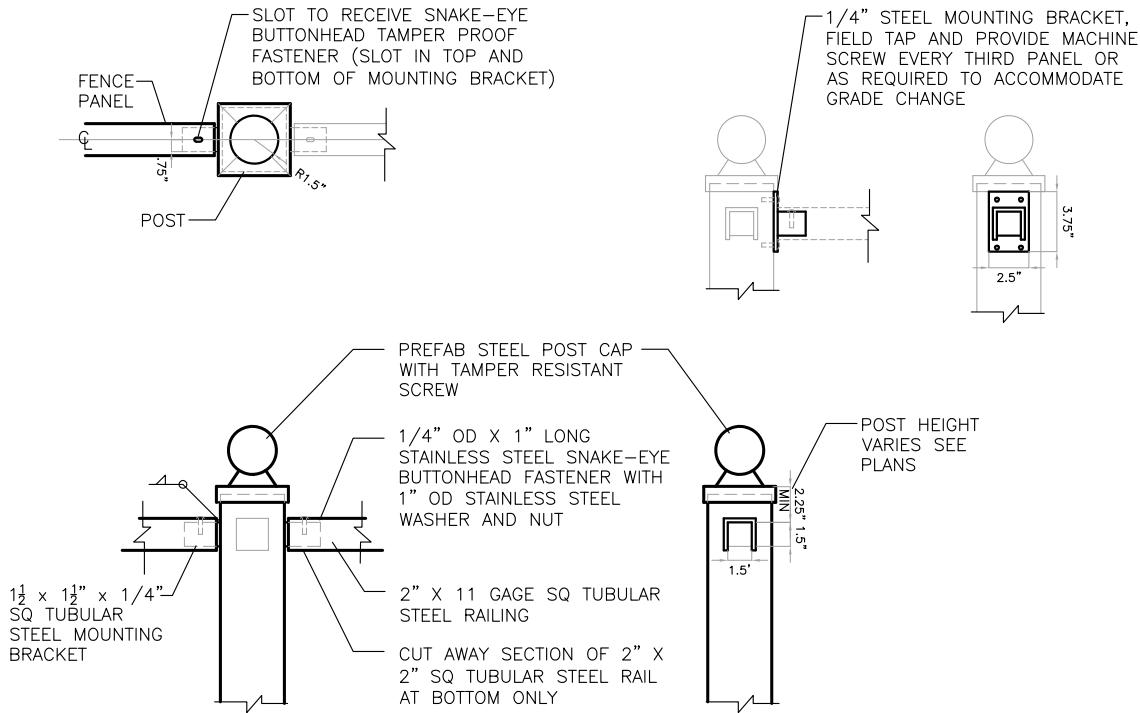
SECTION VIEW
5
FENCE TYPE 1 POST CONNECTION
L12



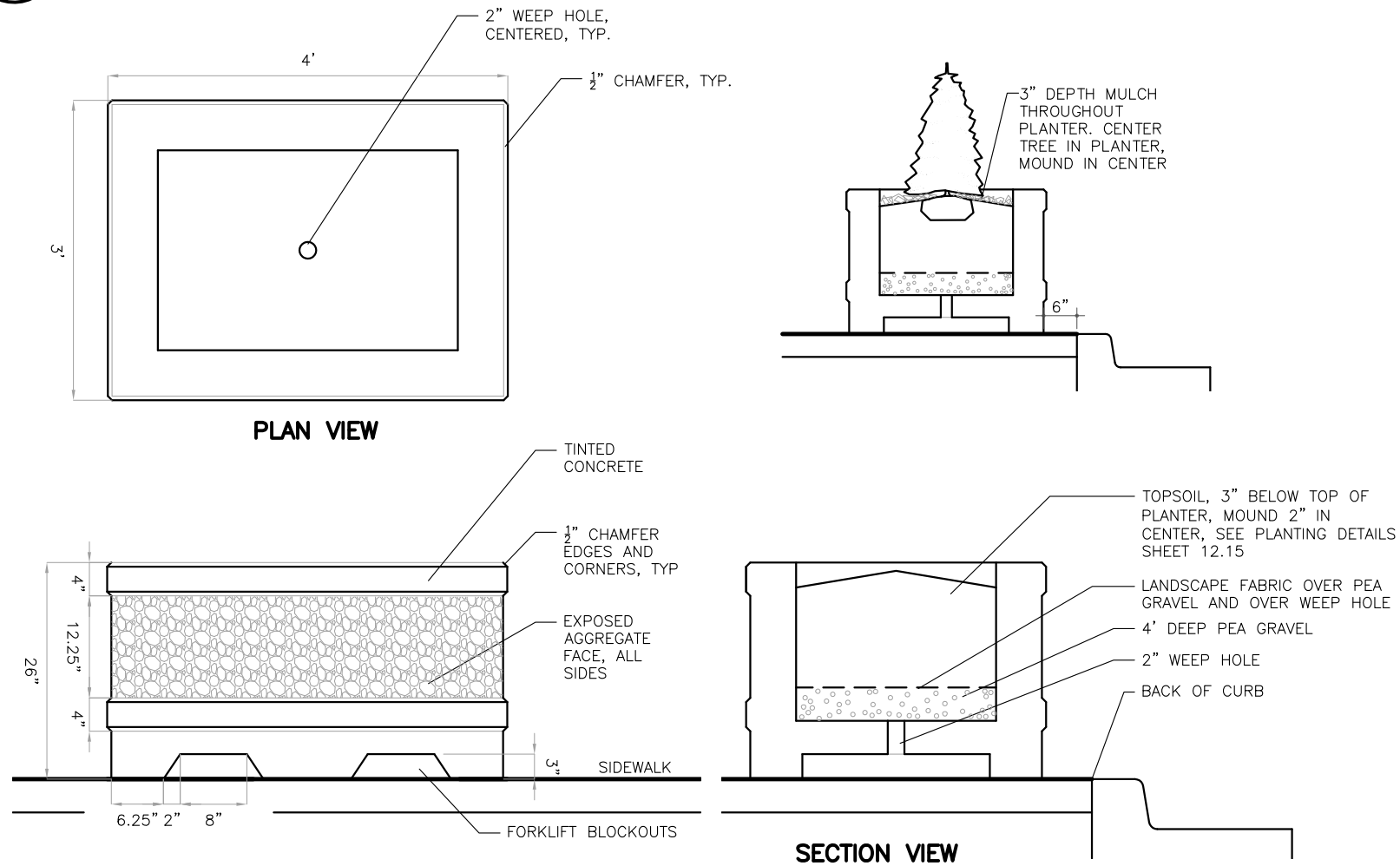
PLAN VIEW

LANDSCAPE DETAILS

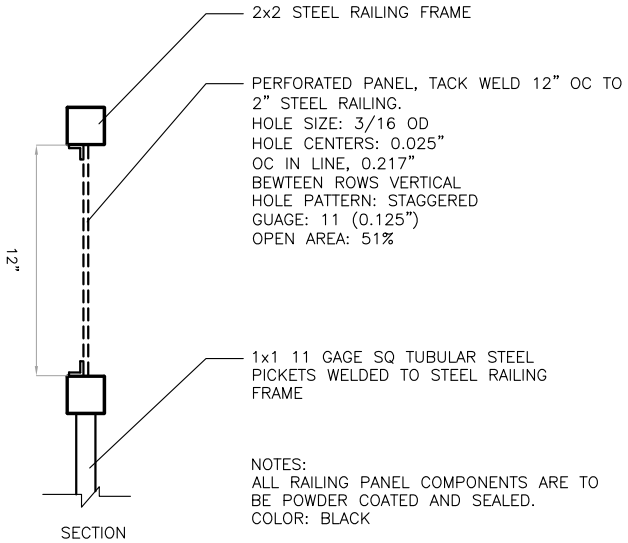
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	63291	2019	L13	L17



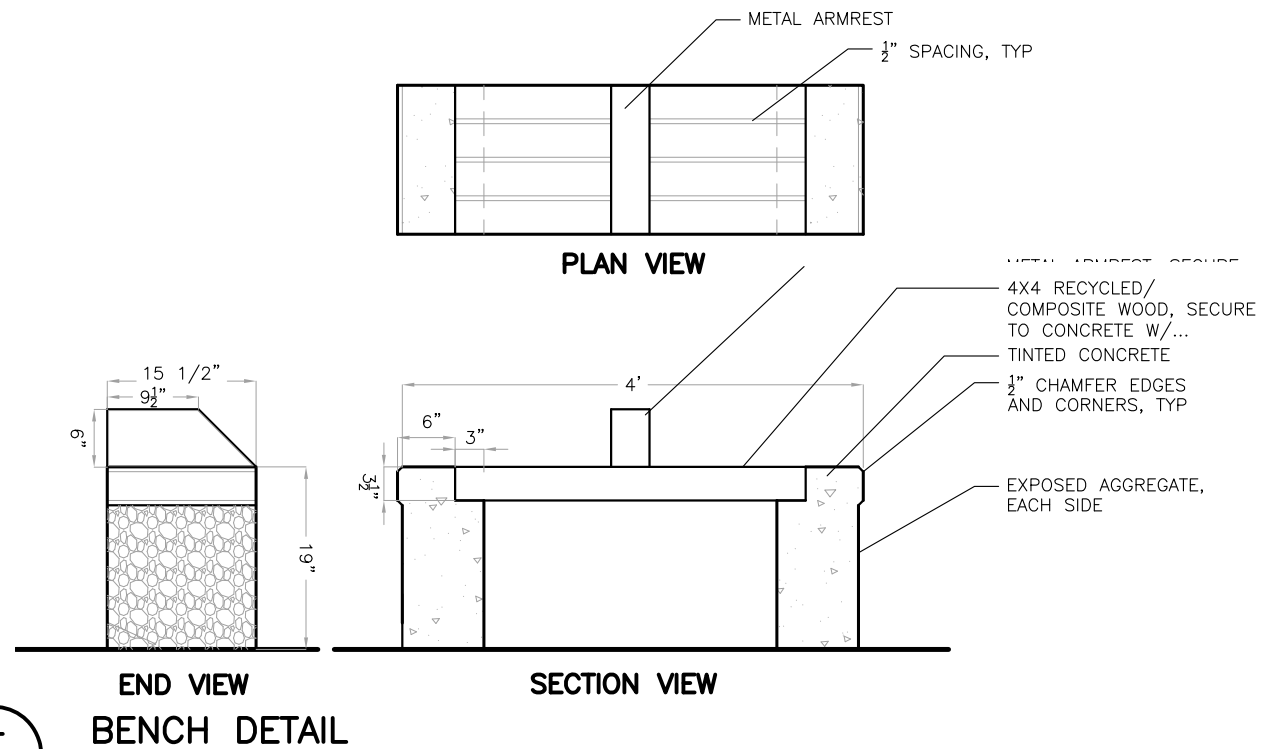
1
L13 RAILING FLANGE – TYPE 1 AND TYPE 2 FENCES



3
L13 PLANTER



2
L13 FENCE PANEL CONNECTION – TYPE 1 AND 2 FENCES

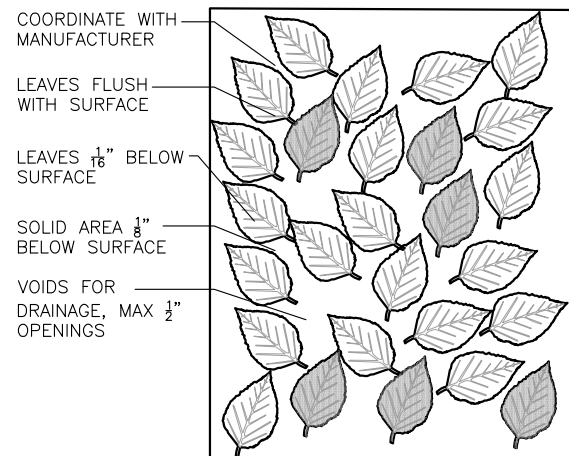
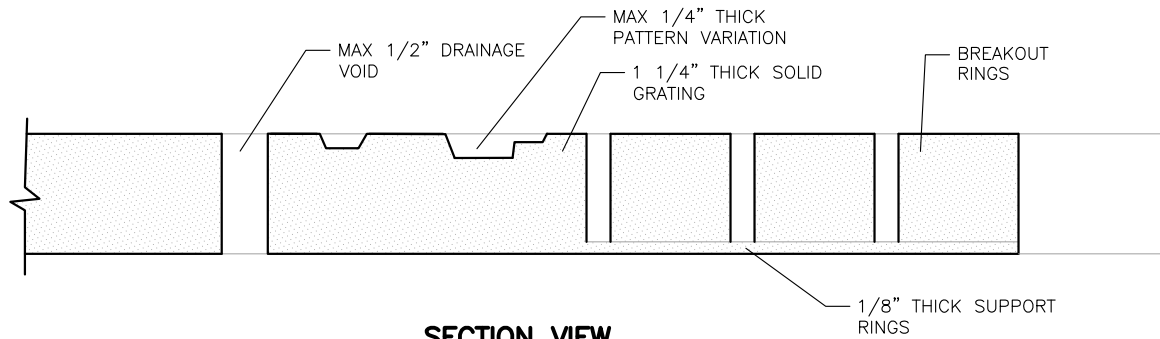


4
L13 BENCH DETAIL

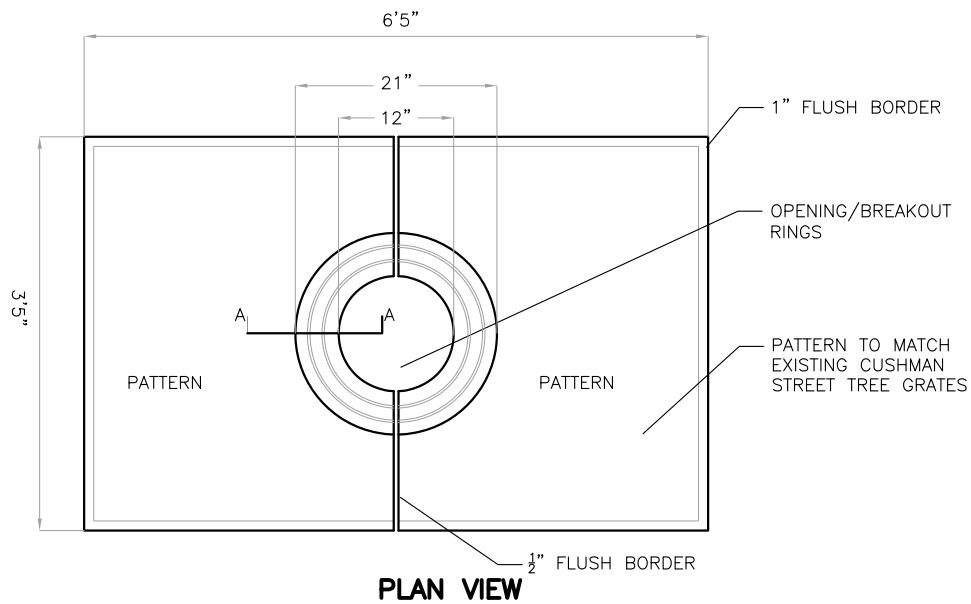
LANDSCAPE DETAILS

PLANS DEVELOPED BY: EARTHSCAPE, LLC. CERT AUTHORIZATION NO. AEC11007, 329 F ST SUITE 222, ANCHORAGE AK 99501 (907)279-2688
\\earth-srv1\Projects\Airport\Cushman\Landscape- airport way cushman\20 65.1 p Details Airport Cushman-Layout1 Wed, May/13/20 10:06pm

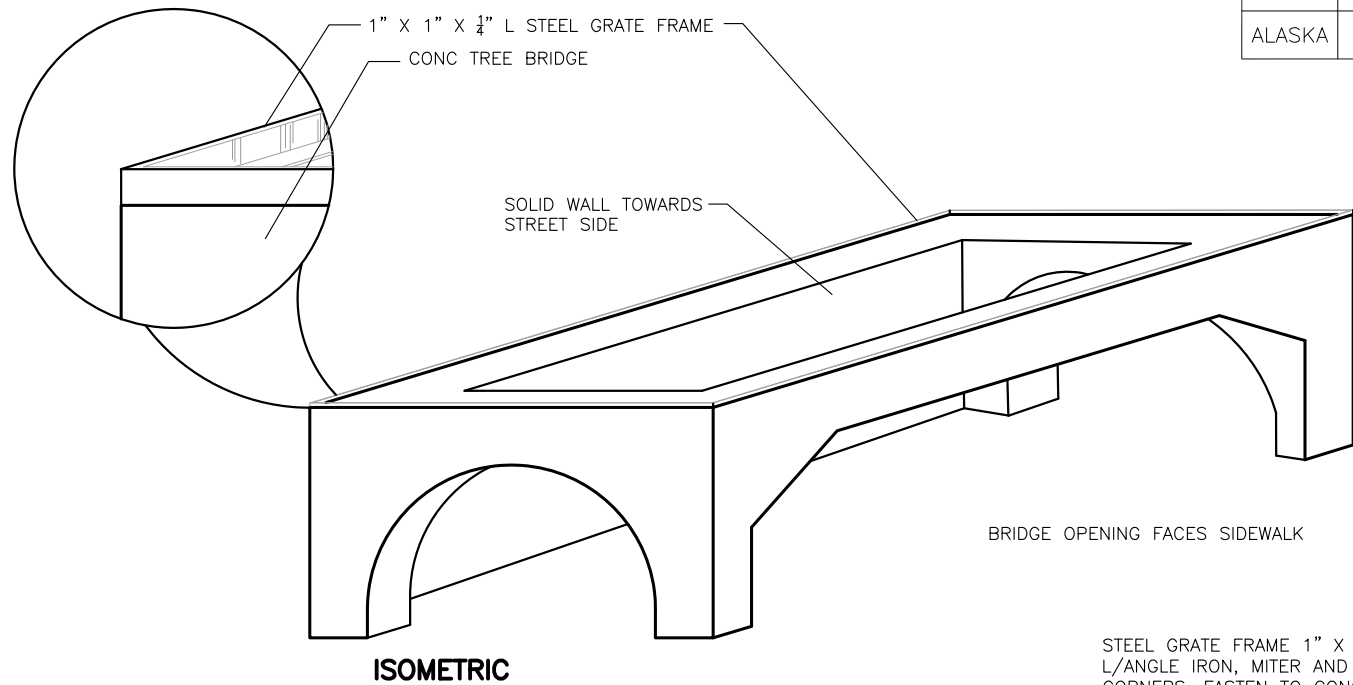
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	63291	2019	L14	L17



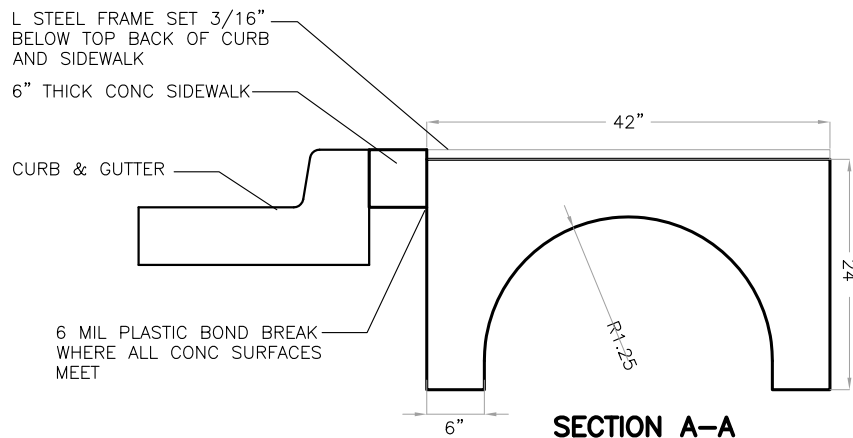
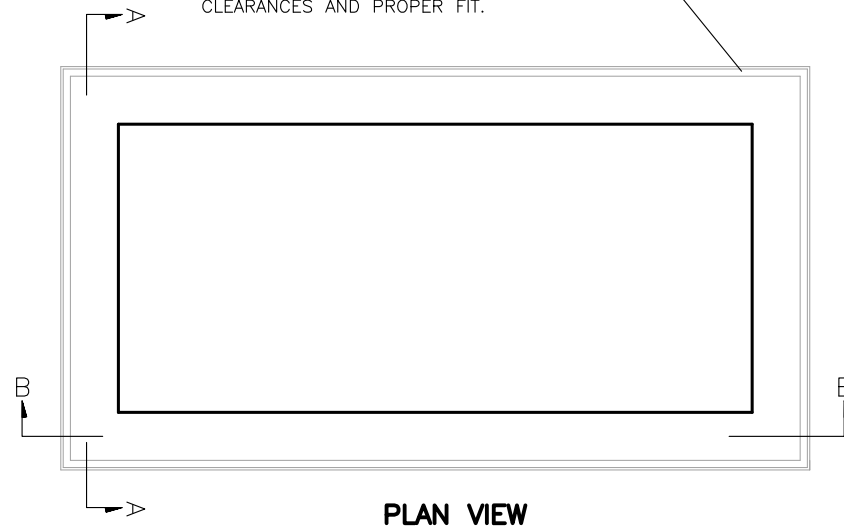
- NOTES:
1. CAST IN TOW PIECES, EACH 1 1/4" THICK
 2. NO OPENINGS > 1/2"
 3. BREAKOUT RINGS AS SHOWN
 4. ARTWORK TO MATCH EXISTING TREE GRATES ON CUSHMAN, ACAD PATTERN AVAILABLE FROM OWNER



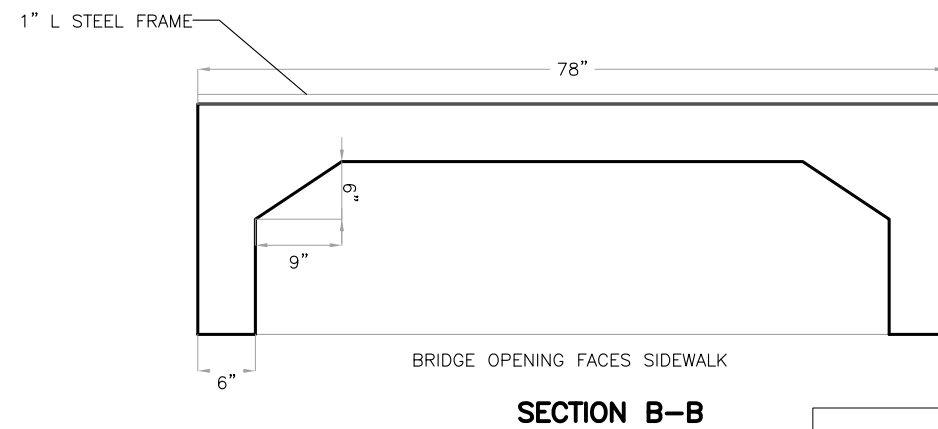
1 TREE GRATE DETAIL
L14



STEEL GRATE FRAME 1" X 1" X 1/4" L/ANGLE IRON, MITER AND WELD CORNERS. FASTEN TO CONCRETE WITH HILTI FASTENERS OR AS PER TREE GRATE MANUFACTURER. COORDINATE WITH TREE GRATE MANUFACTURER TO ASSURE CLEARANCES AND PROPER FIT.

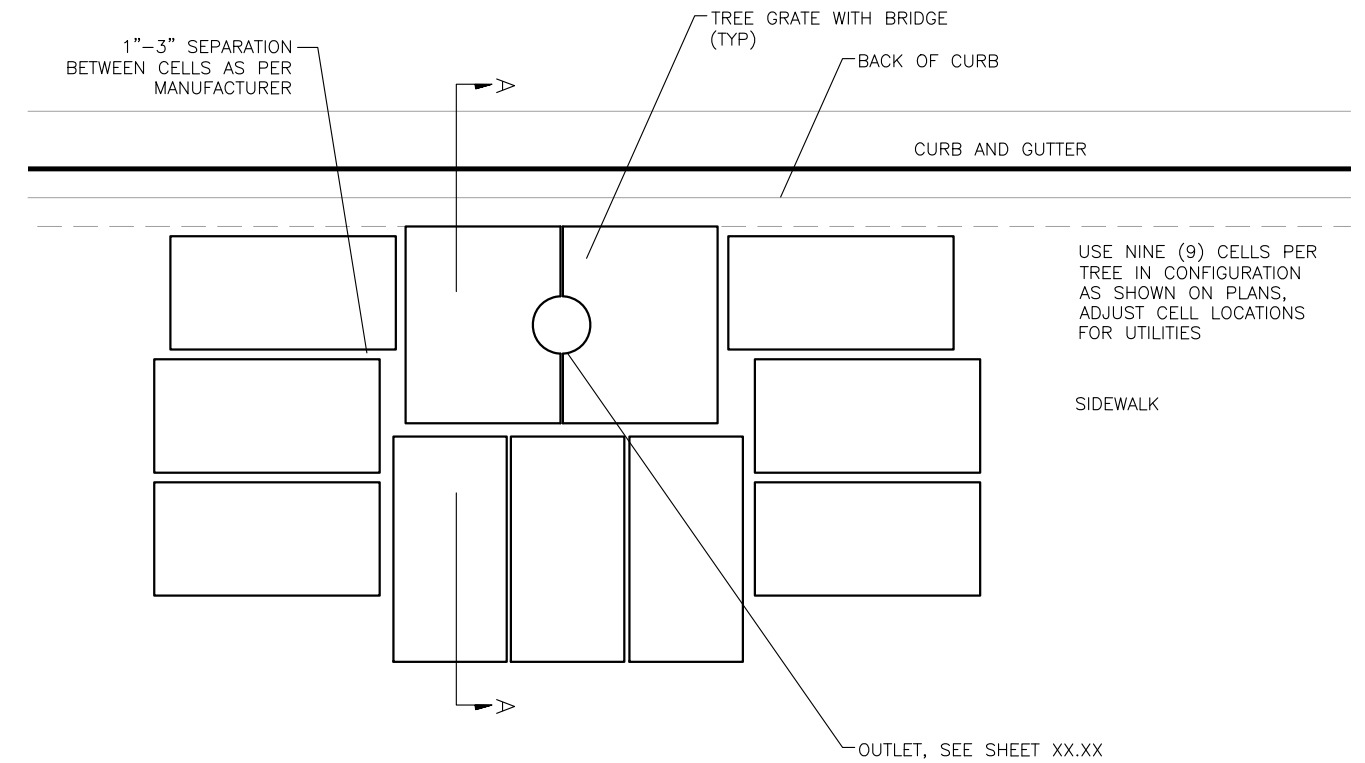
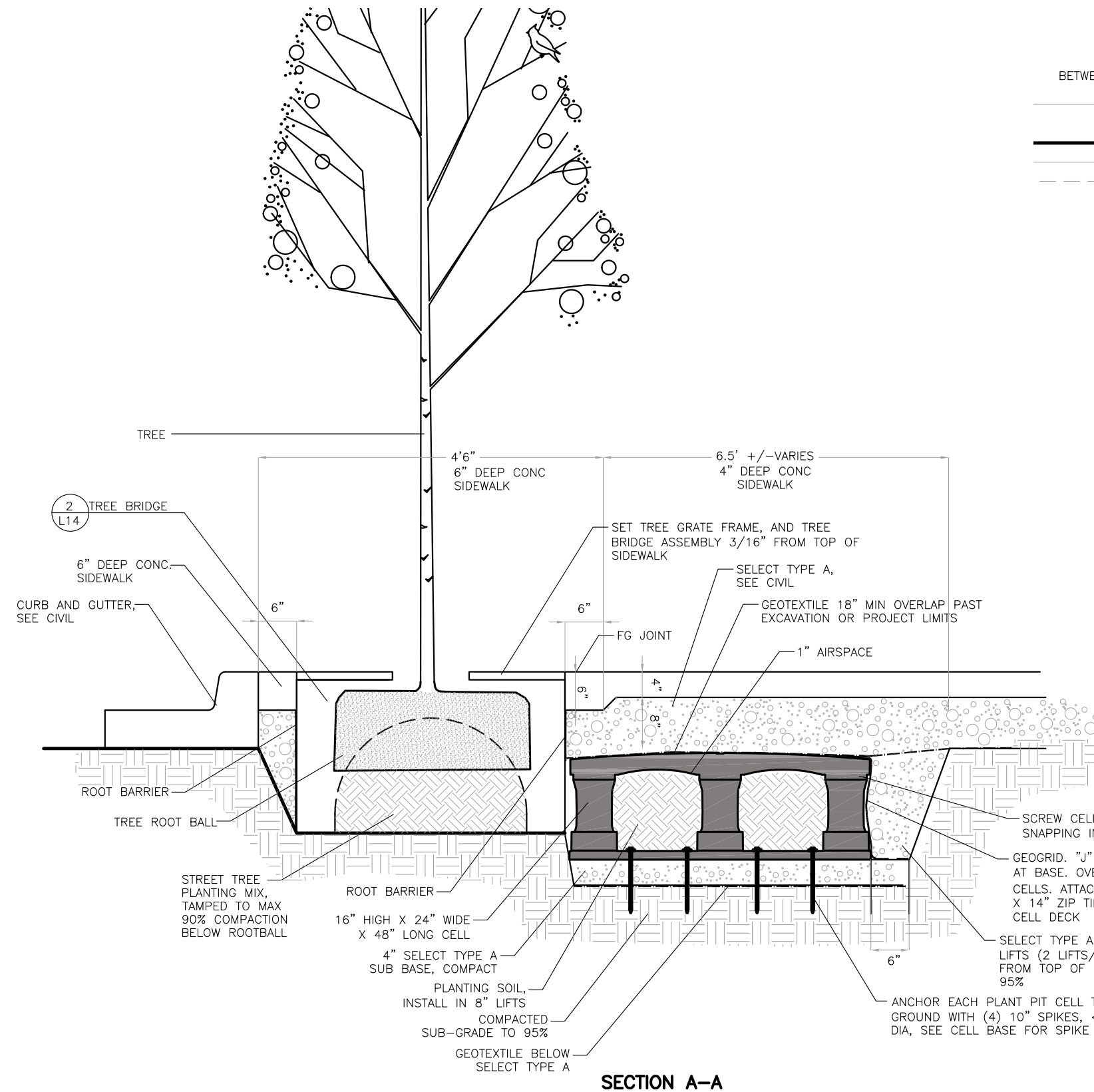


2 TREE GRATE FRAME/PCC TREE BRIDGE
L14



LANDSCAPE DETAILS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	63291	2019	L15	L17



PLAN VIEW TYPICAL CELL LAYOUT

USE NINE (9) CELLS PER
TREE IN CONFIGURATION
AS SHOWN ON PLANS,
ADJUST CELL LOCATIONS
FOR UTILITIES

SIDEWALK

OUTLET, SEE SHEET XX.XX

— SCREW CELL DECKS TO FRAME AFTER
SNAPPING IN PLACE (TYP)

GEOGRID. "J" 6" MIN BELOW BACKFILL
AT BASE. OVERLAP 12" MIN AT TOP OF
CELLS. ATTACH TO PANT CELLS WITH 3"
X 14" ZIP TIES AT EACH LEVEL AND AT
CELL DECK

— SELECT TYPE A, INSTALL IN 8" MAX LIFTS (2 LIFTS/CELL) WITHIN 4"—6" FROM TOP OF DECKS, COMPACTED TO 95%

— ANCHOR EACH PLANT PIT CELL TO
GROUND WITH (4) 10" SPIKES, <10MM
DIA, SEE CELL BASE FOR SPIKE HOLE

SECTION A-A

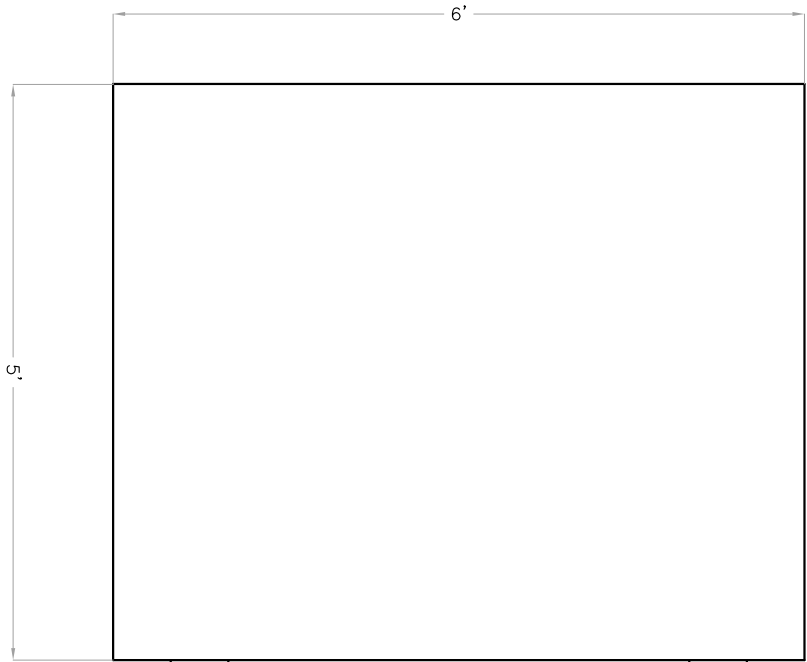
1 STREET TREE PLANTING DETAIL
L15

LANDSCAPE DETAILS

PLANS DEVELOPED BY: EARTHSCAPE, LLC. CERT AUTHORIZATION NO. AECL1007, 329 F ST SUITE 222, ANCHORAGE AK 99501 (907)279-2688

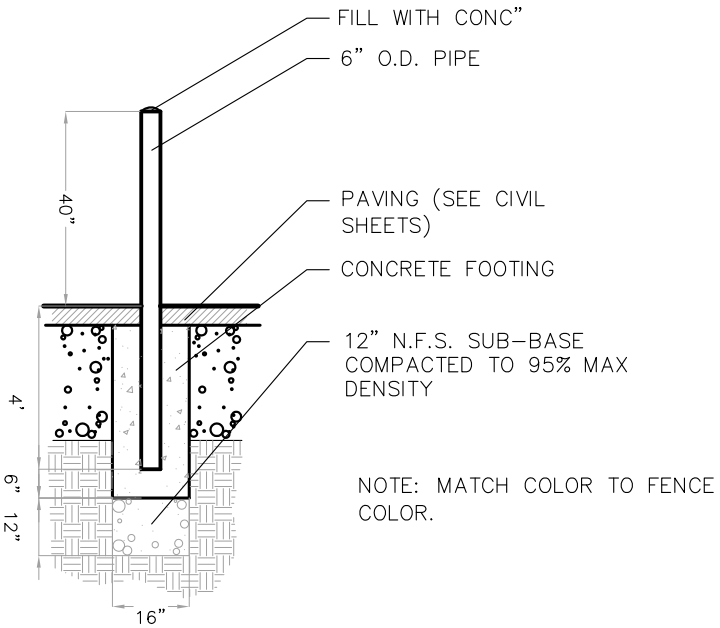
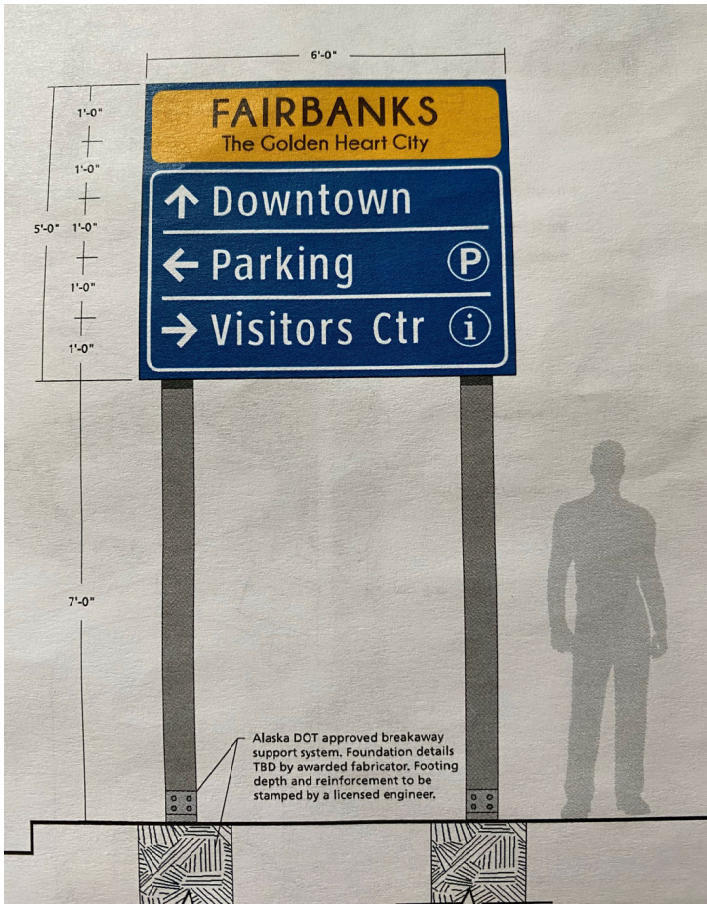
\\earth-srv1\Projects\Airport_Cushman\Landscape-airport way cushman\2.0 65.1 p Details Airport_Cushman-Layout1 Wed, May/13/20 06:09pm

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	63291	2019	L16	L17



TBD
VARIES SIGN SPANS PATHWAY WITH
MIN 8' VERTICAL CLEARANCE

PROPOSED SIGN BASED ON CITY OF
FAIRBANKS DOWNTOWN WAYFINDING
SIGNAGE PLAN, JUNE 19, 2013 &
APPENDIX A DESIGN INTENT
DOCUMENT. SIGN NUMBER V02 AND
V03.



1
L16

GX-2 VEHICLE GUIDE

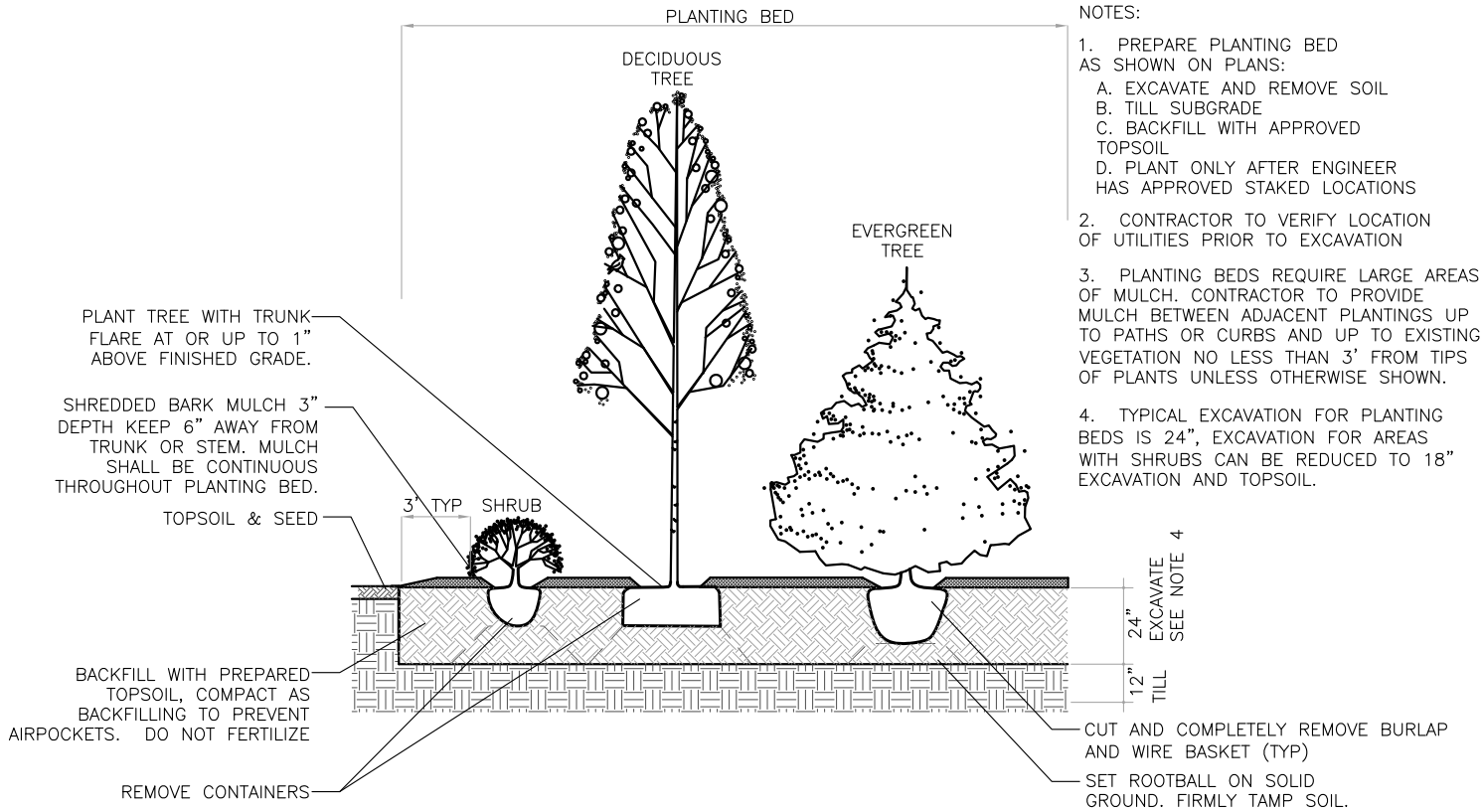
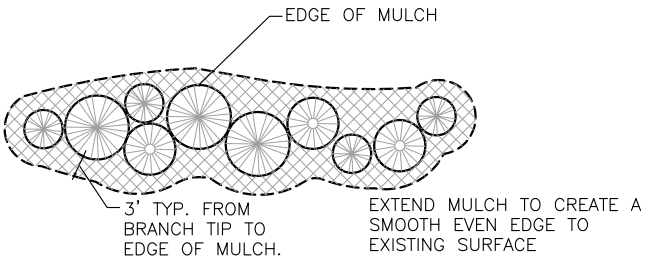
2
L16

BOLLARD

LANDSCAPE DETAILS

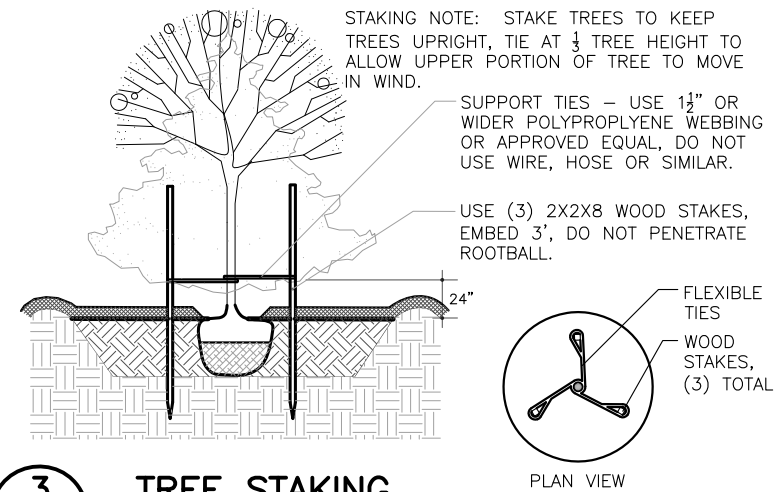
PLANS DEVELOPED BY: EARTHSCAPE, LLC. CERT AUTHORIZATION NO. AECL1007, 329 F ST SUITE 222, ANCHORAGE AK 99501 (907)279-2688

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	63291	2019	L17	L17

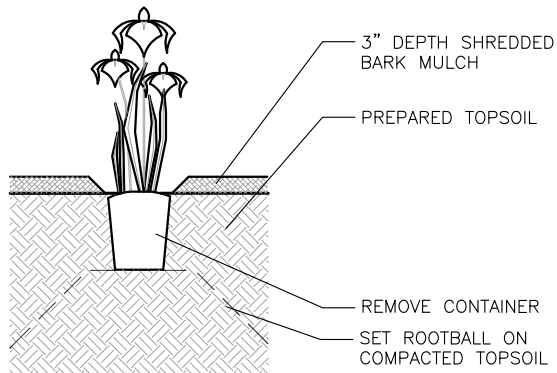


- NOTES:
1. PREPARE PLANTING BED AS SHOWN ON PLANS:
A. EXCAVATE AND REMOVE SOIL
B. TILL SUBGRADE
C. BACKFILL WITH APPROVED TOPSOIL
D. PLANT ONLY AFTER ENGINEER HAS APPROVED STAKED LOCATIONS
 2. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO EXCAVATION
 3. PLANTING BEDS REQUIRE LARGE AREAS OF MULCH. CONTRACTOR TO PROVIDE MULCH BETWEEN ADJACENT PLANTINGS UP TO PATHS OR CURBS AND UP TO EXISTING VEGETATION NO LESS THAN 3' FROM TIPS OF PLANTS UNLESS OTHERWISE SHOWN.
 4. TYPICAL EXCAVATION FOR PLANTING BEDS IS 24", EXCAVATION FOR AREAS WITH SHRUBS CAN BE REDUCED TO 18" EXCAVATION AND TOPSOIL.

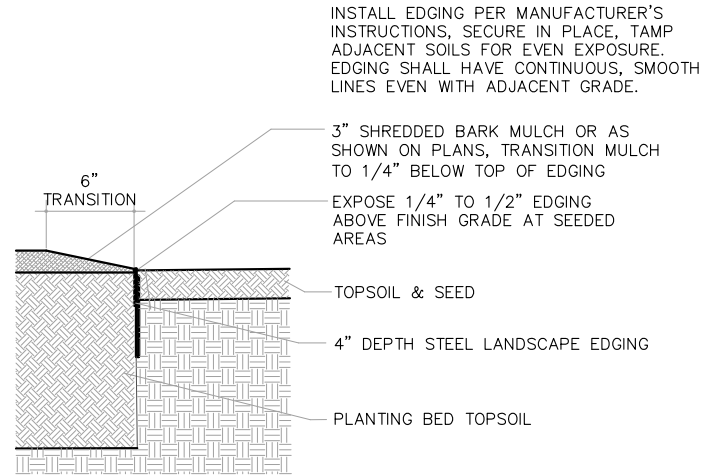
1 PLANTING BED DETAIL



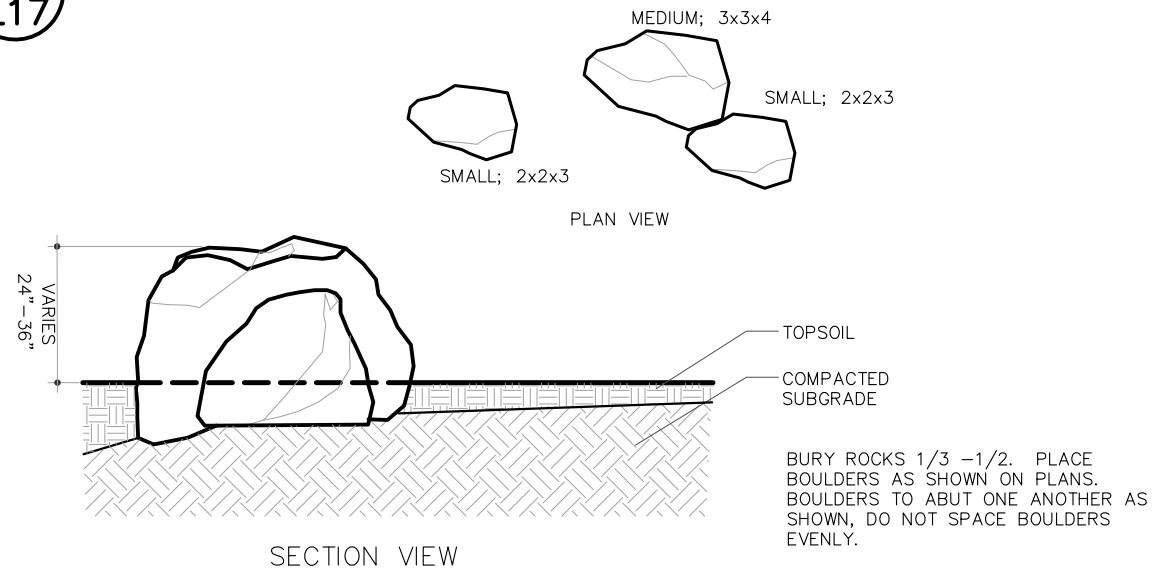
3 TREE STAKING



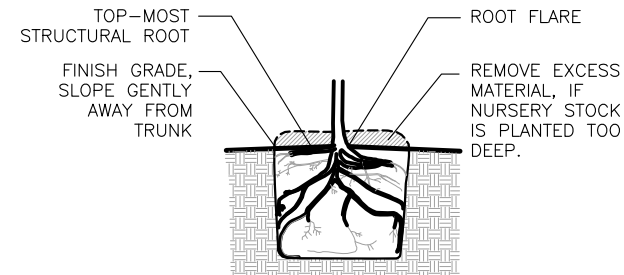
4 PERENNIAL PLANTING DETAIL



2 EDGING DETAIL



5 BOULDER DETAIL



6 PLANTING DEPTH DETAIL

LANDSCAPE DETAILS



ESCP VICINITY MAP

ENVIRONMENTAL INFORMATION:

- RECEIVING WATERS: CHENA RIVER
- IMPAIRED WATERS: CHENA RIVER
- TOTAL MAXIMUM DAILY LOADS (TMDL): NONE
- STORM SEWER/DRAINAGE SYSTEMS: FAIRBANKS NORTH STAR BOROUGH MS4 CONSISTING OF PIPED AND SURFACE WATER DRAINAGE NETWORK AND ULTIMATELY DISCHARGES TO THE CHENA RIVER. THIS PROJECT INCLUDES MODIFICATIONS TO THIS SYSTEM.
- THREATENED AND ENDANGERED SPECIES: NONE
- HISTORICAL & CULTURAL RESOURCE PRESENCE: NONE
- FISH & WILDLIFE HABITAT PRESENCE: TIME VEGETATION CLEARING TO COMPLY WITH THE MIGRATORY BIRD ACT. VEGETATION CLEARING WILL NOT BE ALLOWED DURING THE BIRD NESTING WINDOW, TYPICALLY MAY 1 – JULY 15, UNLESS A NEST SURVEY IS COMPLETED AND CONFIRMED THAT NO NESTS OR BIRDS WILL BE TAKEN.
- WETLANDS: NO WETLANDS OR IN THE PROJECT AREA. THE CHENA RIVER IS WITHIN 2,500 FT OF PROJECT AREA.
- EXISTING PUBLIC WATER SYSTEM (PWS) DRINKING WATER PROTECTION AREAS:
 - PWSID: AK2310730
 - WATER SYSTEM NAME: GOLDEN HEART UTILITIES
 - PWS CONTACT INFORMATION:
BERNIE STACK
(907) 455-0117
BERNIE@AKWATER.COM
P.O. BOX 80370, FAIRBANKS, AK 99708
- DEWATERING OF GROUNDWATER AND/OR STORMWATER THAT ACCUMULATES IN AN EXCAVATION AREA WITHIN 1,500 FT OF A DEC-IDENTIFIED CONTAMINATED SITE REQUIRES AN EXCAVATION DEWATERING PERMIT FROM DEC. AN EXCAVATION DEWATERING PERMIT FROM DEC IS REQUIRED FOR THIS PROJECT.
- THE FOLLOWING DEC IDENTIFIED CONTAMINATED SITES ARE LOCATED WITHIN 1,500 FEET OF THE PROJECT AREA:

- HAZARD ID 2909, FILE NUMBER 100.38.117 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID 1397, FILE NUMBER 102.38.027 (STATUS: ACTIVE)
 - HAZARD ID 24429, FILE NUMBER 102.26.100 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID 24326, FILE NUMBER 102.26.051 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID 24329, FILE NUMBER 102.26.052 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID 4503, FILE NUMBER 102.38.084 (STATUS: ACTIVE)
 - HAZARD ID 24207, FILE NUMBER 102.26.097 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID 25093, FILE NUMBER 102.26.150 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID 24161, FILE NUMBER 102.26.010 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID 25573, FILE NUMBER 102.38.084 (STATUS: ACTIVE)
 - HAZARD ID 24690, FILE NUMBER 102.26.084 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID 3809, FILE NUMBER 102.38.108 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID 23995, FILE NUMBER 102.26.083 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID 25931, FILE NUMBER 102.38.172 (STATUS: ACTIVE)
 - HAZARD ID 2311, FILE NUMBER 102.38.062 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID 711, FILE NUMBER 102.38.079 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID 24169, FILE NUMBER 102.26.015 (STATUS: ACTIVE)
 - HAZARD ID 26690, FILE NUMBER 102.38.197 (STATUS: ACTIVE)
- HAZARD ID 1932, FILE NUMBER 102.38.056 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID 23153, FILE NUMBER 102.26.165 (STATUS: CLEANUP COMPLETE – INSTITUTIONAL CONTROLS)
 - HAZARD ID 24959, FILE NUMBER 102.26.072 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID 24192, FILE NUMBER 102.26.060 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID 25339, FILE NUMBER 102.26.167 (STATUS: CLEANUP COMPLETE – INSTITUTIONAL CONTROLS)
 - HAZARD ID 24400, FILE NUMBER 102.26.089 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID 24367, FILE NUMBER 102.26.063 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID 1393, FILE NUMBER 102.38.024 (STATUS: CLEANUP COMPLETE – INSTITUTIONAL CONTROLS)
 - HAZARD ID 24181, FILE NUMBER 102.26.062 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID 3955, FILE NUMBER 102.38.119 (STATUS: CLEANUP COMPLETE – INSTITUTIONAL CONTROLS)
 - HAZARD ID 24347, FILE NUMBER 100.26.084 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID 26035, FILE NUMBER 100.38.174 (STATUS: CLEANUP COMPLETE)

SITE INFORMATION:

- FOR GENERAL LOCATION MAP SEE VICINITY MAP ON SHEET A1 AND USGS FAIRBANKS (D-2) SE QUADRANGLE, T1S, R1W, SECTION 10, FAIRBANKS MERIDIAN.
- SITE FUNCTION: ROAD.
- AVERAGE ANNUAL PRECIPITATION: 10.53 INCHES (SOURCE: WESTERN REGIONAL CLIMATE CENTER) FOR FAIRBANKS WSO AIRPORT.
- 2-YEAR, 24-HOUR RAINFALL EVENT: 1.09 INCHES (SOURCE: [HTTP://HDCS.NWS.NOAA.GOV/HDSC/PFDS/PFDS_MAP_AK.HTML](http://hdcs.nws.noaa.gov/hdsc/pfds/pfds_map_ak.html)) FOR FAIRBANKS
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING LOCATIONS FOR STOCKPILING MATERIAL AND STAGING AND STORING EQUIPMENT. STAGING AND STOCKPILE AREAS MUST COMPLY WITH CGP, SWPPP, SECTION 641, AND ALL PERMITS.
- PROJECT AREAS ARE LISTED BELOW (MATERIAL SITES NOT INCLUDED):

PROJECT INFORMATION TABLE	
PROJECT AREA (ACRE)	12.18 ACRES
DISTURBED AREA (ACRE)	7.14 ACRES
PRE-CONSTRUCTION IMPERVIOUS AREA	85%
POST-CONSTRUCTION IMPERVIOUS AREA	92%
PRE-CONSTRUCTION RUNOFF COEFFICIENT	0.81
POST-CONSTRUCTION RUNOFF COEFFICIENT	0.85

- LANDSCAPE TOPOGRAPHY: VERY FLAT AND HIGHLY URBANIZED WITH RESIDENTIAL AND COMMERCIAL DEVELOPMENTS SURROUNDING THE PROJECT INTERSECTION.
- DRAINAGE PATTERNS: SURFACE DRAINAGE AND PIPED STORM DRAINS FLOW TO CHENA RIVER.
- SOILS: ALLUVIAL SAND AND GRAVEL OVERLAIN BY SILT AND ORGANIC SILT.
- EXISTING VEGETATION: PROJECT AREA IS A MIX OF RESIDENTIAL AND COMMERCIAL WITH LIMITED LAWNS, SHRUBS AND TREES.
- APPROXIMATE GROWING SEASON: MAY 3 THROUGH OCTOBER 3 (SOURCE: USACE WETLANDS DELINEATION MANUAL: ALASKA REGION (VERSION 2))

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	Q1	Q2

ESCP NOTES:

- THIS PROJECT WILL RESULT IN GROUND DISTURBANCE OF GREATER THAN 1 ACRE AND REQUIRES A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND A NOTICE OF INTENT (NOI) TO DISCHARGE FOR COVERAGE UNDER THE ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM (APDES) CONSTRUCTION GENERAL PERMIT (CGP).
- READ AND COMPLY WITH THE CGP AND SECTION 641 OF THE PROJECT SPECIFICATIONS.
- THIS EROSION SEDIMENT CONTROL PLAN (ESCP) IS GENERAL IN NATURE AND IS PROVIDED AS GUIDANCE TO THE CONTRACTOR FOR THE DEVELOPMENT OF THE:
 - SWPPP
 - HAZARDOUS MATERIAL CONTROL PLAN (HMCP)
 - SPILL PREVENTION, CONTROL AND COUNTERMEASURES (SPCC) PLAN
- INITIATE EROSION AND SEDIMENT CONTROLS PRIOR TO ANY EARTH DISTURBING ACTIVITIES.
- THE CONTRACTOR SHALL SELECT AND APPLY APPROPRIATE CONTROLS TO PREVENT SEDIMENT AND OTHER POLLUTANTS FROM ENTERING THE PIPED STORM DRAIN SYSTEM.
- EROSION AND SEDIMENT CONTROL FEATURES MUST BE BASED ON THE DOT&PF MANUAL ALASKA STORM WATER POLLUTION PREVENTION PLAN GUIDE (FEBRUARY 2011 OR LATEST VERSION) AND LATEST BMPs.
- AT A MINIMUM, INLET PROTECTION (I.E., FILTER BAGS PLACED UNDER THE INLET GRATE) SHALL BE PROVIDED AT ALL INLETS WITHIN AND IMMEDIATELY ADJACENT TO THE PROJECT LIMITS.
- SEE SHEET Q2 FOR LOCATIONS WHERE INLET PROTECTION IS ANTICIPATED AND FOR SURFACE RUNOFF DIRECTIONS. SURFACE RUNOFF DIRECTIONS SHOWN REPRESENT ROADWAY FINISHED GRADES. ROADWAY RUNOFF IS DIRECTED TO CURB AND GUTTER AT SIDES OF ROAD.
- PROVIDE VEHICLE CLEANING EQUIPMENT, OR OTHER APPROVED CONTROLS, TO PREVENT TRACKING OF DIRT AND GRAVEL ONTO PAVED SURFACES.
- ENSURE LOADS ARE STABLE AND COVERED SO THAT NO MATERIAL ESCAPES DURING HAULING ACTIVITIES.
- STREET SURFACES ADJACENT TO THE WORK AREA SHALL BE SWEEPED DAILY TO COLLECT ANY SEDIMENT OR OTHER CONSTRUCTION DEBRIS TRACKED OFFSITE.
- THE CONTRACTOR SHALL DESIGNATE A CONCRETE WASHOUT AREA ONSITE, AS NECESSARY, TO CONTAIN THE WASHOUT WATER AND RESIDUALS DURING CONCRETE WORK.
- HAVE A SPILL KIT AVAILABLE AT EACH WORK AREA WHEN HEAVY EQUIPMENT IS BEING UTILIZED.
- STOCKPILE AND STAGING LOCATION MUST BE RECLAIMED TO THEIR ORIGINAL CONDITION. STOCKPILES AND/OR STAGING AREAS ARE NOT ALLOWED IN WETLANDS.
- ALL DISTURBED GROUND MUST BE PERMANENTLY STABILIZED.

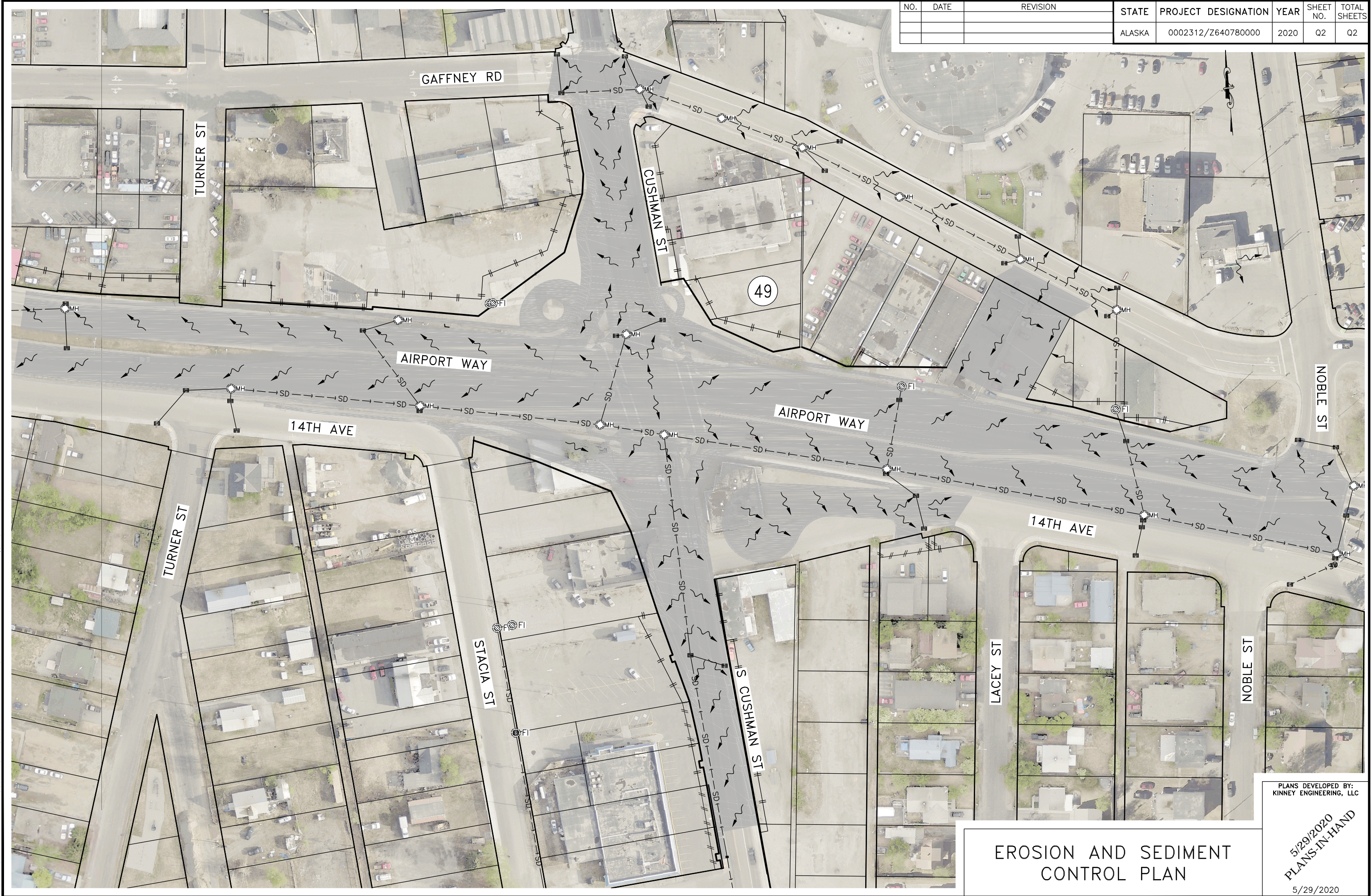
ESCP LEGEND:

PARCEL BOUNDARY	
TEMPORARY CULVERT INLET SEDIMENT TRAP	
EXISTING SURFACE WATER FLOW DIRECTION	
CATCH BASIN PROTECTION AREA	
# OF CATCH BASINS TO PROTECT	
SD PIPE & FLOW DIRECTION	
APPROXIMATE LIMITS OF EARTH DISTURBANCE	
CATCH BASIN	
FIELD INLET	
STORM DRAIN MANHOLE	

EROSION AND SEDIMENT CONTROL PLAN

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
C:\Users\Gordon.Dufseth\OneDrive\temp\appdata\local\temp\AsPublish_23632\64078_Q1-Q2_ESCP-Q2_Fri_May_29_20_03:00pm KE# 00385 (Gordon Dufseth)

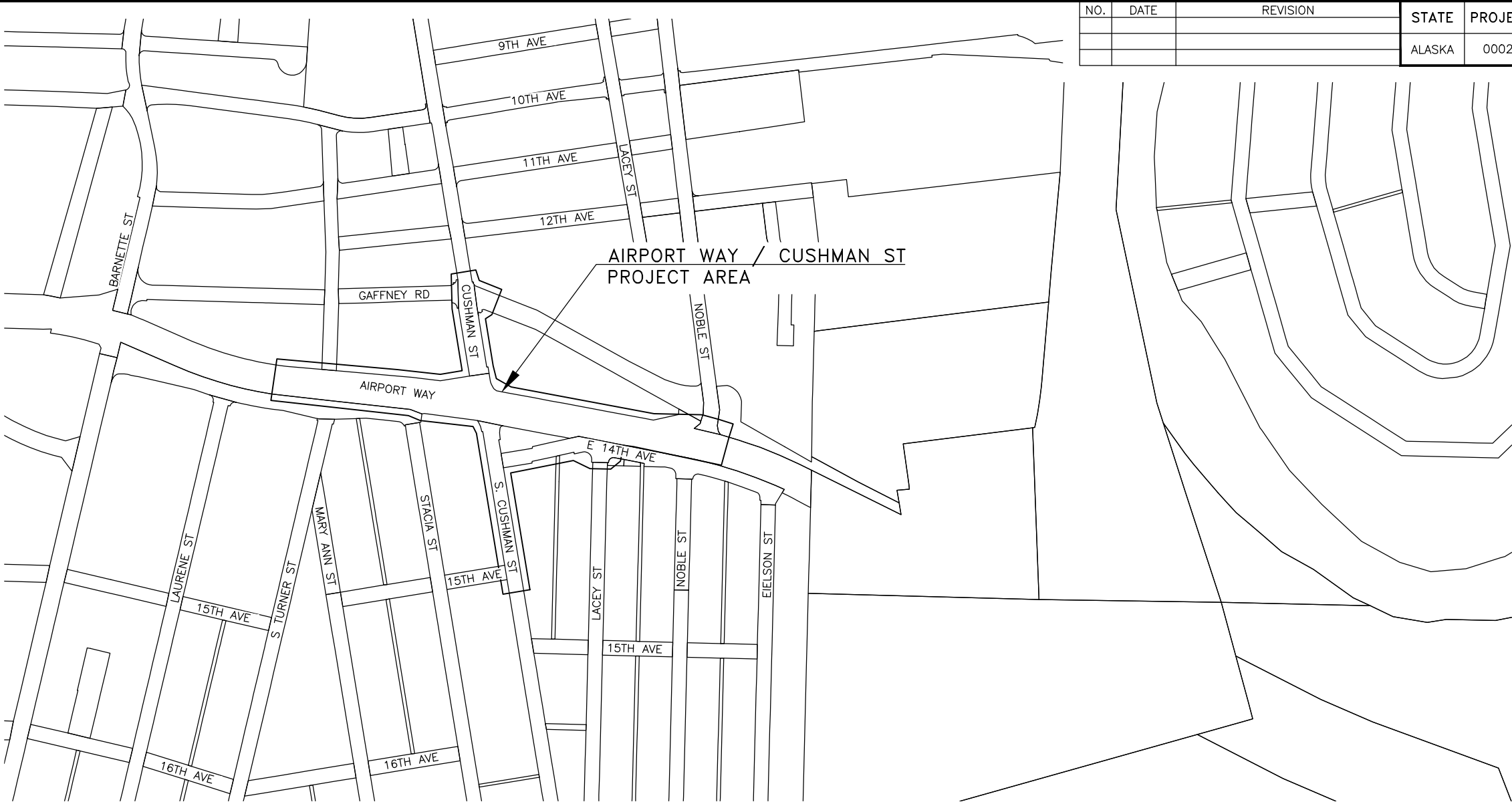
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	Q2	Q2



EROSION AND SEDIMENT CONTROL PLAN

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
PLANS-IN-HAND
5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	T1	T3

GENERAL TRAFFIC CONTROL PLAN NOTES

- THIS IS A GENERALIZED TRAFFIC COTRNL PLAN (TCP) TO SHOW ALLOWABLE LANE CLOSURES, ROAD CLOSURES, AND DETOUR ROUTES, AND LOCATIONS FOR PORTABLE CHANGEABLE MESSAGE BOARD SIGNS (CMS). THE CONTRACTOR SHALL DEVELOP AN APPROVED TCP AND AN APPROVED CONSTRUCTION PHASING PLAN IN ACCORDANCE WITH THIS PLAN AND SECTION 643 OF THE PROJECT SPECIFICATIONS.
- PROVIDE ACCESS TO RESIDENTIAL PROPERTIES AT ALL TIMES.
- PROVIDE ACCESS TO COMMERCIAL PROPERTIES DURING THEIR BUSINESS HOURS. CONTRACTOR SHALL CONTACT ALL BUSINESSES IN THE PROJECT AREA TO COORDINATE AND ENSURE ACCESS.
- DRIVEWAYS ADJACENT TO AN EXCAVATION SHALL BE RAMPED TO PROVIDE ACCESS.
- TCPS WHICH REQUEST CLOSURE OF ANY RESIDENTIAL OR COMMERCIAL ACCESS SHALL BE SUBMITTED FOR APPROVAL IN ACCORDANCE WITH SECTION 643. ANY ACCESS CLOSURE SHALL NOT OCCUR WITHOUT WRITTEN APPROVAL OF THE ENGINEER. COORDINATE CLOSURE PLANS WITH THE AFFECTED PROPERTY OCCUPANT AND/OR OWNER. THE CONTRACTOR SHALL NOTIFY THE AFFECTED PROPERTY A MINIMUM OF 48 HOURS PRIOR TO IMPLEMENATION OF AN APPROVED ACCESS CLOSURE.
- PROVIDE ACCESS THROUGH THE PROJECT FOR EMERGENCY VEHICLES.
- MAC TRANSIT PURPLE LINE IS ROUTED THROUGH THE PROJECT LIMITS AIRPORT, ON CUSHMAN AND GAFFNEY. MAC TRANSIT GREEN LINE IS ROUTED THROUGH PROJECT LIMITS ON CUSHMAN ST. PROVIDE ACCESS FOR TRANSIT BUSES AND ITS USERS.
- MAINTAIN ACCESS OF CROSS STREETS AS SHOWN.
- PROVIDE PUBLIC NOTICE OF DETOURS AND CLOSURES IN ACCORDANCE WITH SECTION 643.
- BEFORE BEGINNING WORK WITHIN THE PROJECT LIMITS, ERECT TRAFFIC CONTROL DEVICES REQUIRED BY THE APPROVED TCP.
- PROVIDE TRAFFIC CONTROL DEVICES MEETING THE REQUIREMENTS OF SECTION 643.
- EXISTING SIGNS WHICH CONFLICT WITH CONSTRUCTION SIGNS SHALL BE COVERED. COORDINATE REMOVAL WITH CITY OF FAIRBANKS PUBLIC WORKS.

- CONSTRUCTION SIGNS MAY NOT BE PLACED ON PORTABLE SIGN SUPPORTS FOR MORE THAN THREE CONSECUTIVE CALENDAR DAYS. SIGNS REQUIRED LONGER THAN THIS PERIOD SHALL BE MOUNTED ON A PERMANENT SIGN POST WITH THE EXCEPTION OF PEDESTRIAN TRAFFIC CONTROL SIGNS AND SIGNS MOUNTED ON A TYPE III BARRICADE WHICH MAY BE INSTALLED ON PORTABLE SIGN SUPPORTS FOR THE DURATION OF THEIR INSTALLATION.
- SPECIAL CONSTRUCTION SIGNS SHALL BE FABRICATED OF MATERIALS CONFORMING TO SECTION 615 OF THE SPECIFICATIONS AND SHALL HAVE A BLACK LEGEND ON ORANGE BACKGROUND.
- ALL SIGNS SHALL BE SUPPLEMENTED WITH HIGH LEVEL WARNING DEVICES.
- ALL BARRICADES SHALL HAVE ONE OPERABLE FLASHING LIGHT FOR EACH 10 FEET OF BARRICADE, WITH A MINIMUM OF TWO LIGHTS PER TYPE III BARRICADE EXCEPT IN A TAPER WHERE ONLY THE FIRST TWO LIGHTS SHALL FLASH (TYPE "A") AND THE REMAINDER SHALL BE STEADY BURN (TYPE "C").
- TYPE "A" FLASHING WARNING LIGHTS SHALL BE USED TO MARK THE TYPE III BARRICADES, ROAD CLOSURES, AND ADVANCE DETOUR SIGNING AT NIGHT.
- DEVICE SPACING ON TAPERS AND TANGENTS SHALL BE ONE (1) X THE POSTED SPEED LIMIT (IN FEET). SPEED LIMIT:
- TWO (2) PORTABLE CHANGEABLE MESSAGE BOARD SIGNS WILL BE SUBSIDIARY TO 2020 SSHC TRAFFIC MAINTENANCE. ANY ADDITIONAL PORTABLE CHANGEABLE MESSAGE BOARD SIGNS WILL BE PAID FOR UNDER 2020 SSHC AT THE TRAFFIC CONTROL RATE SCHEDULE.
- TEMPORARY STRIPING SHALL BE EITHER TEMPORARY RAISED PAVEMENT MARKERS OR PREFORMED PAVEMENT MARKING TAPE.
- TRAFFIC CONTROL ZONES PROVIDING TWO-WAY TRAFFIC ON A ROAD REDUCED TO A SINGLE LANE REQUIRE A FLAGGER LOCATED AT EACH END.

TRAFFIC CONTROL PLAN LEGEND

FULL CLOSURE

HALF-WIDTH CLOSURE

TRAFFIC CONTROL PLAN
OVERALL PLAN

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND

5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
Z:\PROJECTS\DOTPE\385_Airport & Cushman Reconstruction\DWGS\C_Sheets\64078_T2-TX_TRAFFIC CONTROL-T2 Fri, May/29/20 01:43pm KE#: 00385



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	T2	T3

TRAFFIC CONTROL PLAN NOTES

- 1
2. ACCESS TO:
- 2 ACCESS TO:
- 3 ACCESS TO:
- 4 ACCESS TO:
- ACCESS TO:
- ACCESS TO:
- 6
- 7

TRAFFIC CONTROL PLAN LEGEND

FULL CLOSURE

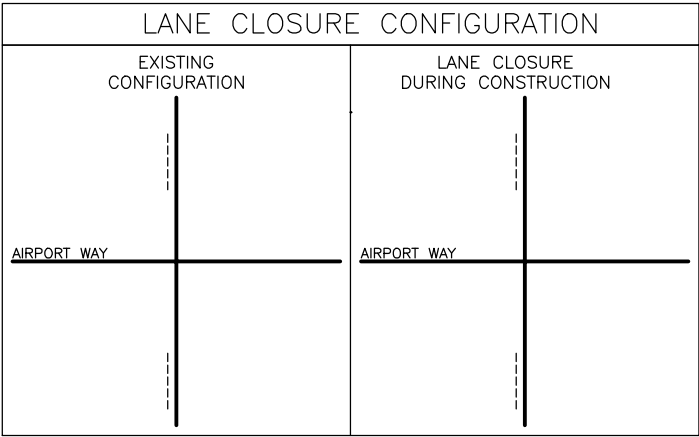
HALF-WIDTH CLOSURE

TYPE III BARRICADE

DETOUR ROUTE

PORTABLE CHANGEABLE MESSAGE BOARD SIGN

LANE CLOSURE



TRAFFIC CONTROL PLAN
SB DETOUR AT AIRPORT WAY

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

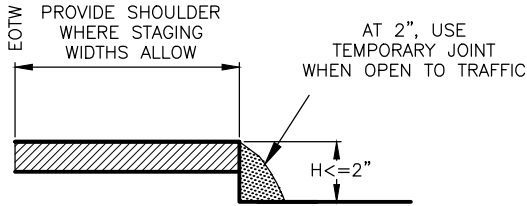
5/29/2020
PLANS-IN-HAND

5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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KE#: 00385 (Aaron Finkler)

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	T3	T3

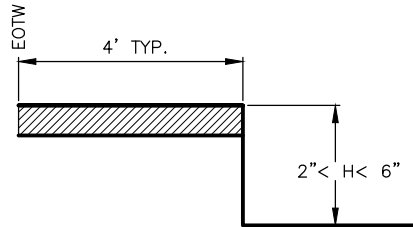
VERTICAL DROP-OFFS



CASE A

DROP-OFFS ≤ 2 INCHES
(PAVED SURFACES ONLY)

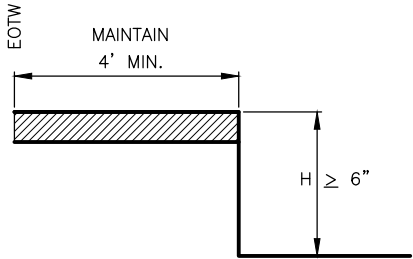
- USE "UNEVEN LANES" (CW8-11) SIGNS FOR ALL DROP-OFFS IN BETWEEN TRAFFIC LANES.
- LEAVE NO DROP-OFFS > 1.5" IN THE TRAFFIC LANE OR ACTIVE WHEEL TRACK.



CASE B

2" < DROP-OFFS < 6"
(ALL ROADWAY SURFACES)

- PLACE CONES OR CANDLES FOR DROP-OFFS ≥ 4 FEET AND ≤ 30 FEET FROM THE EOTW.
- USE DRUMS OR TYPE II BARRICADES FOR DROP-OFFS < 4 FEET FROM THE EOTW.

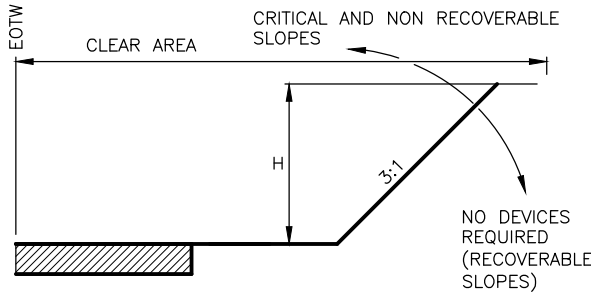


CASE C

DROP-OFFS ≥ 6"
(ALL ROADWAY SURFACES
AND ROADSIDE SLOPES)

- PLACE DRUMS OR TYPE II BARRICADES FOR DROP-OFFS ≤ 24" WITHIN THE CLEAR AREA.
- PROVIDE PORTABLE CONCRETE BARRIER FOR DROP-OFFS > 24" WITHIN 15 FEET OF THE EOTW. USE DRUMS OR TYPE II BARRICADES IF BEYOND 15 FEET.

CUT SLOPES



EOTW = EDGE OF TRAVELED WAY

CLEAR AREA REQUIREMENTS

	LOW SPEED < = 35 MPH
URBAN	10' DITCH SECTIONS, OR 2' BEHIND CURB

CHANNELIZING DEVICE REQUIREMENTS FOR SLOPES
3:1 OR STEEPER WITHIN THE CLEAR AREA

	H ≤ 15'
> 2000 VPD	TYPE II BARRICADE OR DRUMS

EQUIPMENT NOTES:

- WHEN THERE IS ACTIVE, NONMOBILE CONSTRUCTION EQUIPMENT WITHIN THE CLEAR AREA, DELINEATE THE ROADSIDE WITH TRAFFIC CONES.
- SEPARATE PROCEDURES ARE REQUIRED FOR MOBILE WORK ZONE OPERATIONS AND SHORT DURATION WORK OF LESS THAN 12 HOURS.

WINTER SHUTDOWN NOTES:

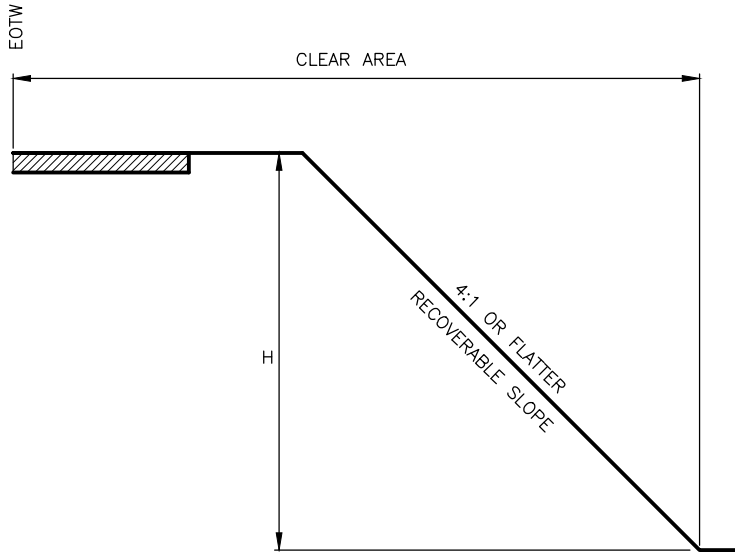
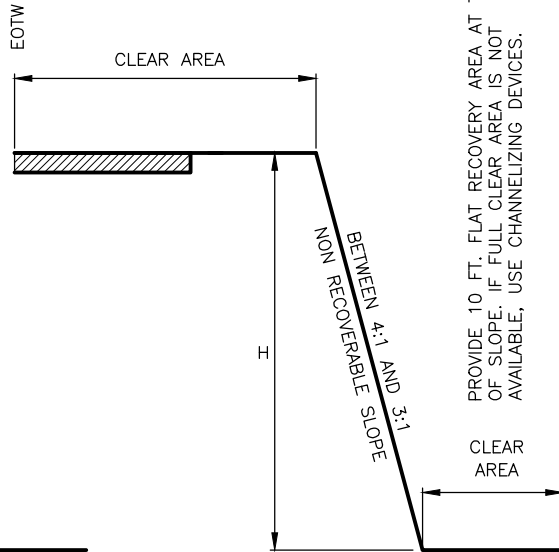
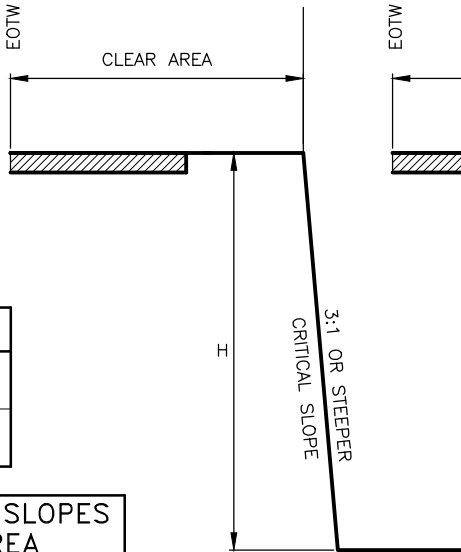
- WHEN REQUIRED, USE CHANNELIZING DEVICES WHICH CAN BE MAINTAINED OVER WINTER.
- NO CHANNELIZING DEVICES ARE REQUIRED IF:
A) CONSTRUCTION SLOPES ARE RECOVERABLE, AND
B) SLOPES ARE SMOOTH AND COMPACTED, AND
C) REQUIRED CLEAR AREA IS PROVIDED

FILL SLOPES

STEEPER THAN OR EQUAL TO 3:1

BETWEEN 4:1 AND 3:1

FLATTER THAN OR EQUAL TO 4:1

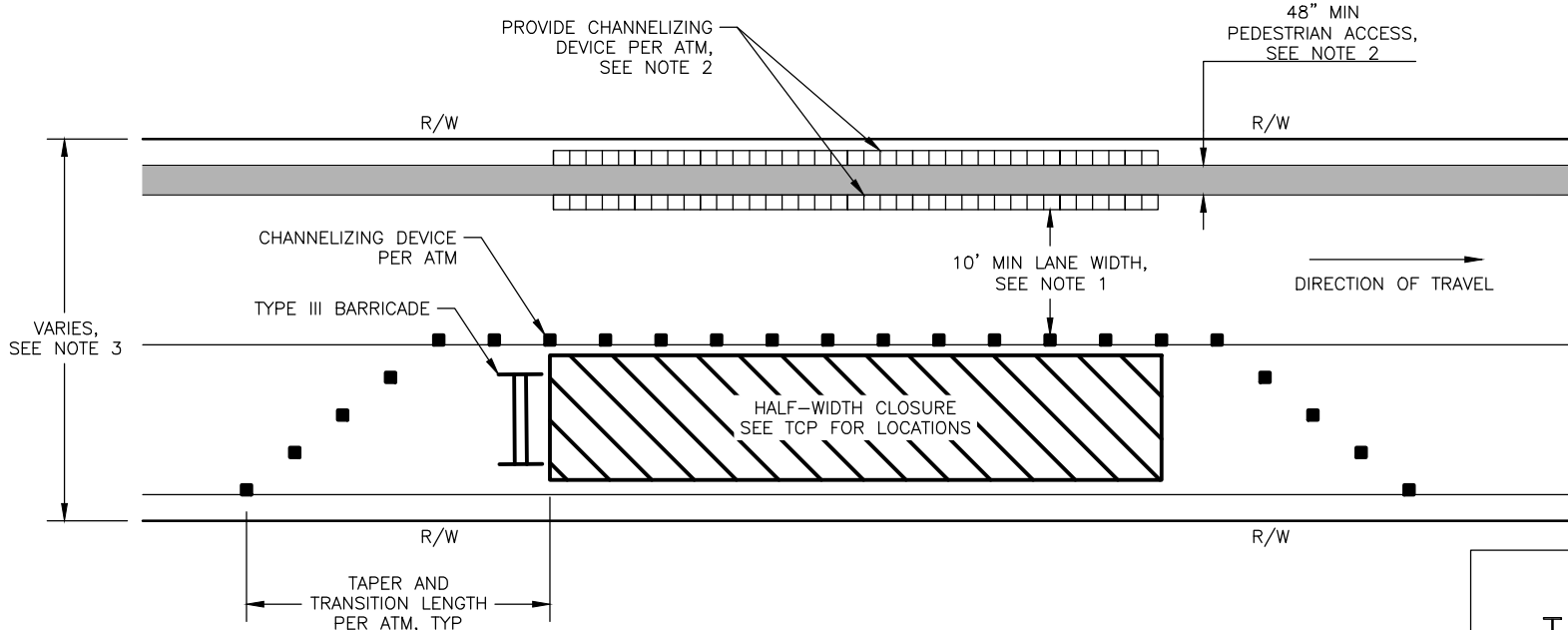


TRAFFIC CONTROL NOTES:

- USE THE EXISTING CROSS-SECTION (PRIOR TO CONSTRUCTION) AS A BASIS FOR DETERMINING WHEN CHANNELIZING DEVICES ARE NEEDED.
- INSTALL CHANNELIZING DEVICES WHEN THE HORIZONTAL OR VERTICAL CURVATURE IS MADE MORE SEVERE.
- INSTALL FLEXIBLE DELINEATORS WHEN ALL VEGETATION OVER 4 FEET HIGH IS CLEARED FROM ALL FILL SLOPES THAT ARE 3:1 OR STEEPER IN THE CLEAR AREA.
- USE PORTABLE CONCRETE BARRIER FOR WARRANTING CONDITIONS WHICH LAST LONGER THAN 3 DAYS. FOR CONDITIONS LASTING LESS THAN 3 DAYS, OTHER CHANNELIZING DEVICES MAY BE INSTALLED.

HALF-WIDTH CLOSURE NOTES:

- PROVIDE MINIMUM 10' LANE WIDTH AS MEASURED FROM NEAR FACE OF CHANNELIZING DEVICE TO NEAR FACE OF CHANNELIZING DEVICE OR CURB FACE.
- WHEN POSSIBLE, ROUTE PEDESTRIANS ON EXISTING OR NEWLY CONSTRUCTED SIDEWALK. OTHERWISE, DELINEATE TEMPORARY PEDESTRIAN ACCESS USING CHANNELIZING DEVICES PER MUTCD. TEMPORARY PEDESTRIAN ACCESS SHALL BE A MINIMUM 48" WIDTH AS MEASURED FROM NEAR FACE OF CHANNELIZING DEVICE TO NEAR FACE OF CHANNELIZING DEVICE WITH AN ADA-COMPLIANT SMOOTH SURFACE. PROVIDE ADA-COMPLIANT WHEELCHAIR RAMPS AT LOCATIONS WHERE PEDESTRIANS ARE ROUTED FROM THE SIDEWALK INTO THE STREET. PHASE WORK IN A MANNER THAT GUIDES PEDESTRIANS THROUGH THE WORK ZONE IN THE MOST CONTINUOUS AND DIRECT ROUTE PRACTICABLE AND THAT MINIMIZES CROSSINGS TO THE OPPOSITE SIDE OF THE ROADWAY.
- RIGHT-OF-WAY WIDTH VARIES BETWEEN 50' - 60'. SEE F SHEETS FOR RIGHT-OF-WAY LIMITS. LOCATE TEMPORARY TRAFFIC CONTROL WITHIN LIMITS OF RIGHT-OF-WAY.



HALF-WIDTH CLOSURE DETAIL

TRAFFIC CONTROL PLAN

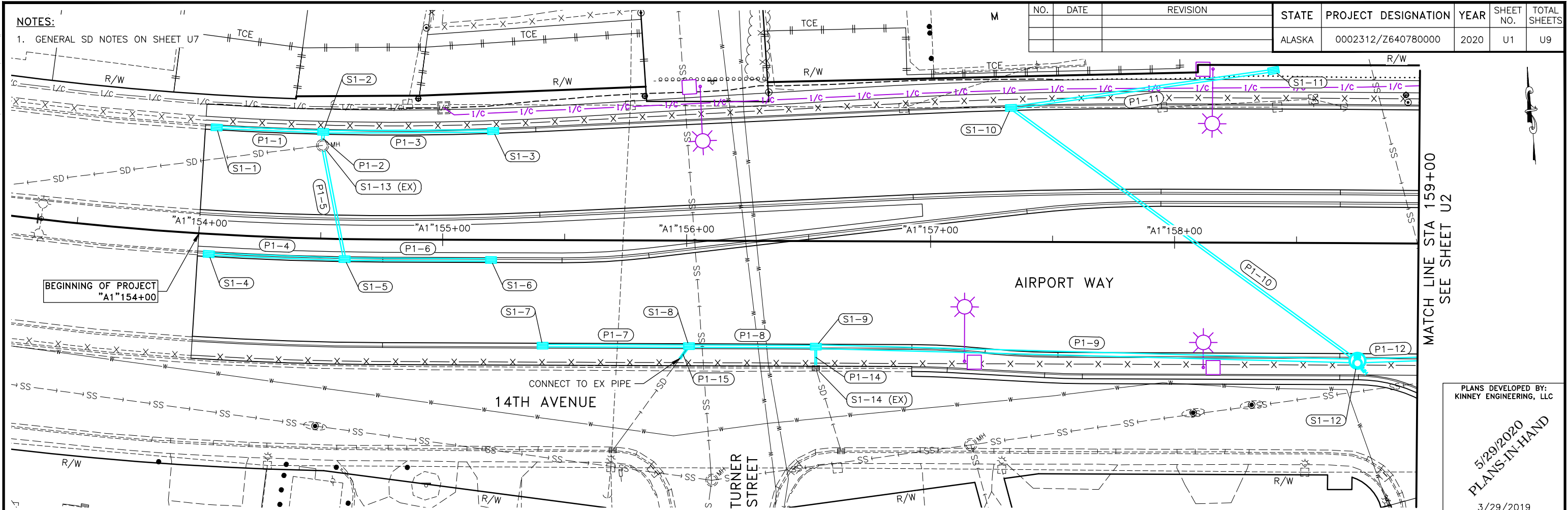
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND

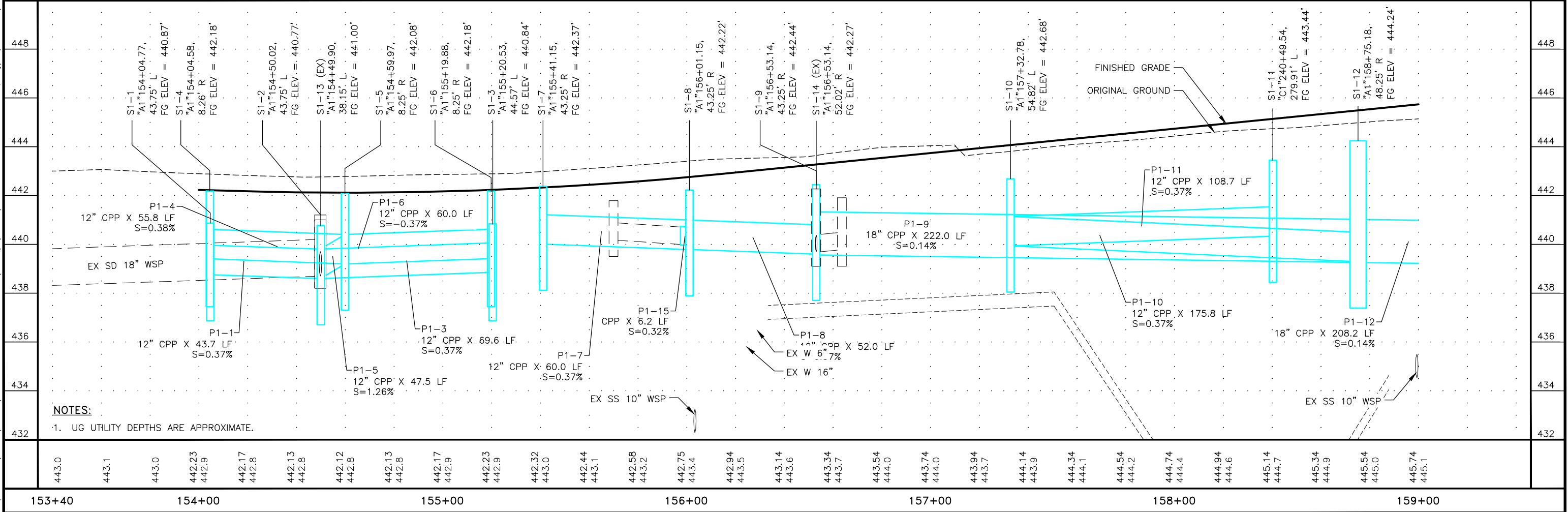
5/29/2020

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	U1	U9

1. GENERAL SD NOTES ON SHEET U7



5/29/2020
PLANS-IN-HAND



PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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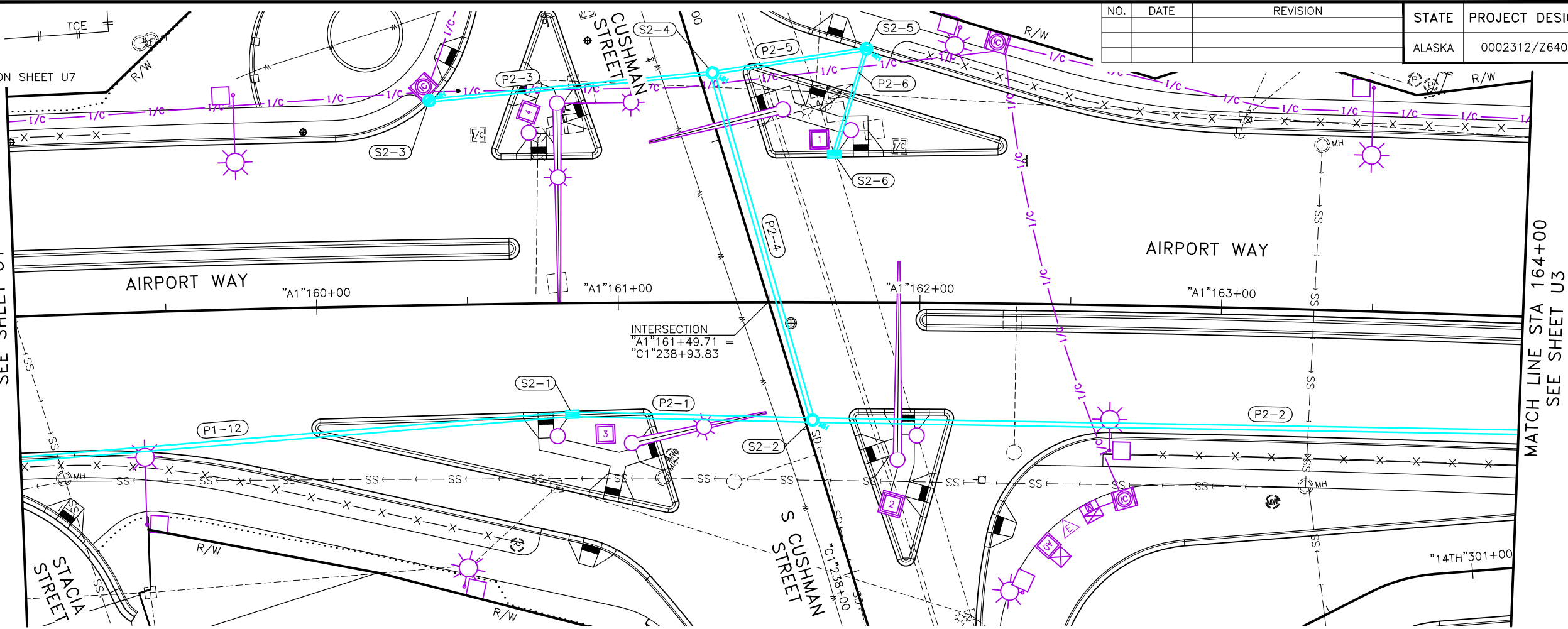
(Aaron Finkler) KE#: 00385

NOTES:

1. GENERAL SD NOTES ON SHEET U7

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	U2	U9

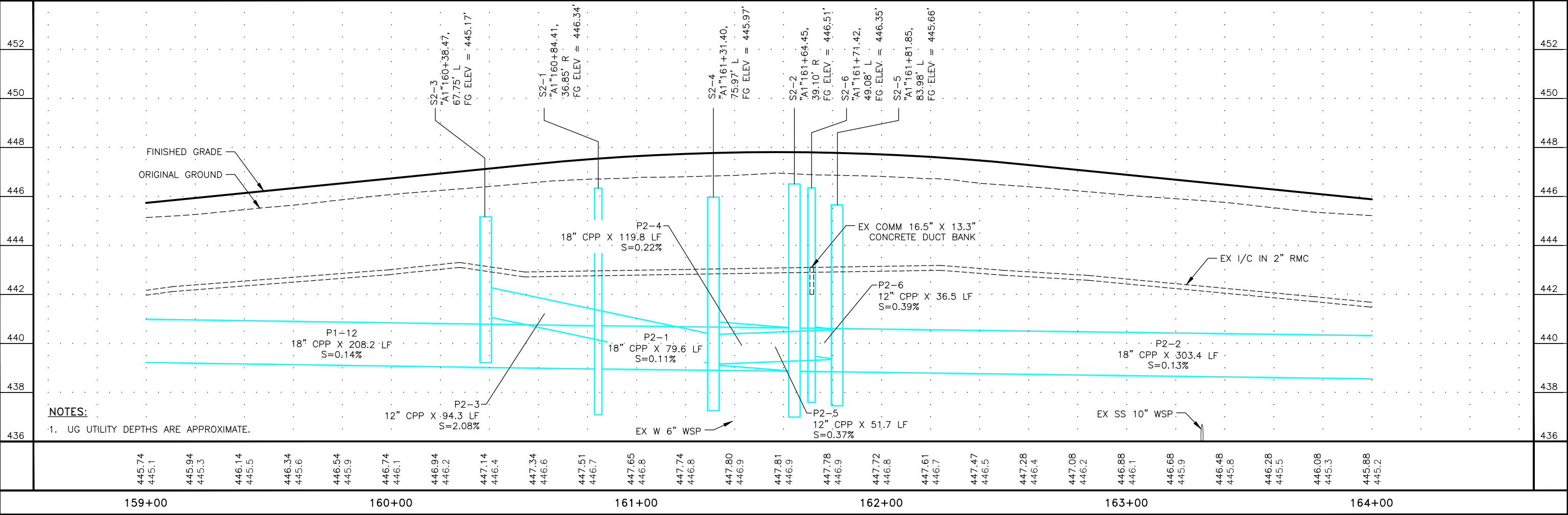
MATCH LINE STA 159+00
SEE SHEET U1



MATCH LINE STA 164+00
SEE SHEET U3

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND
3/29/2019



NOTES:

1. UG UTILITY DEPTHS ARE APPROXIMATE.

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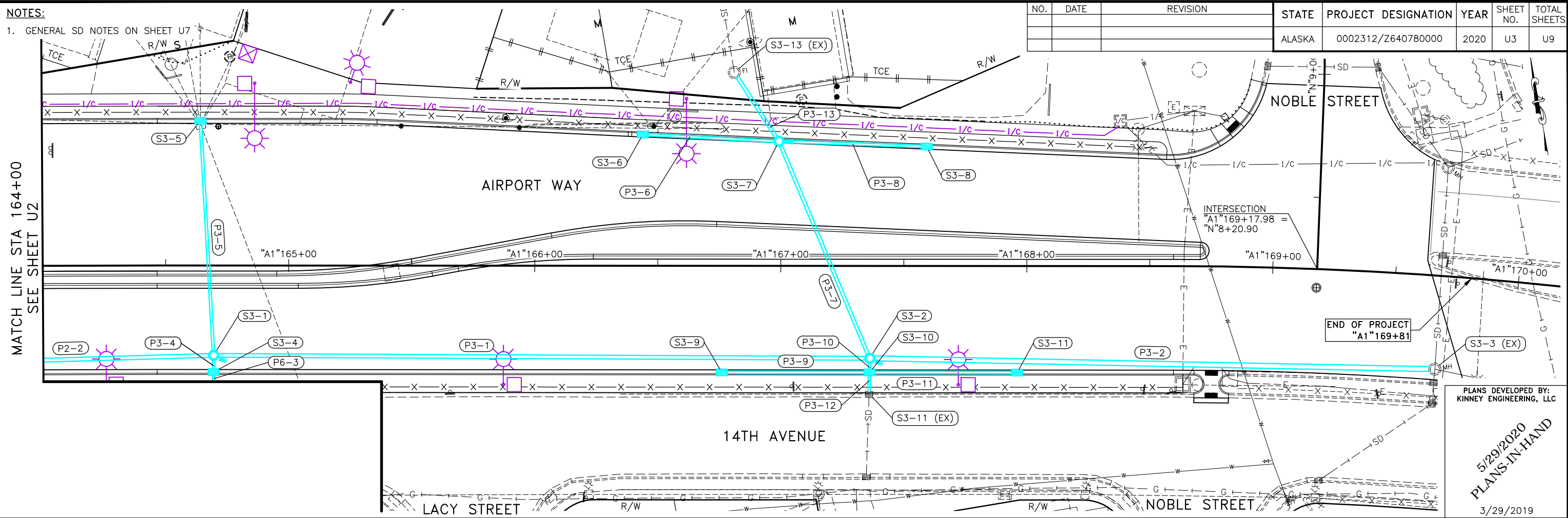
(Aaron Finkler) KE#: 00385

NOTES:

1. GENERAL SD NOTES ON SHEET U7

MATCH LINE STA 164+00
SEE SHEET U2

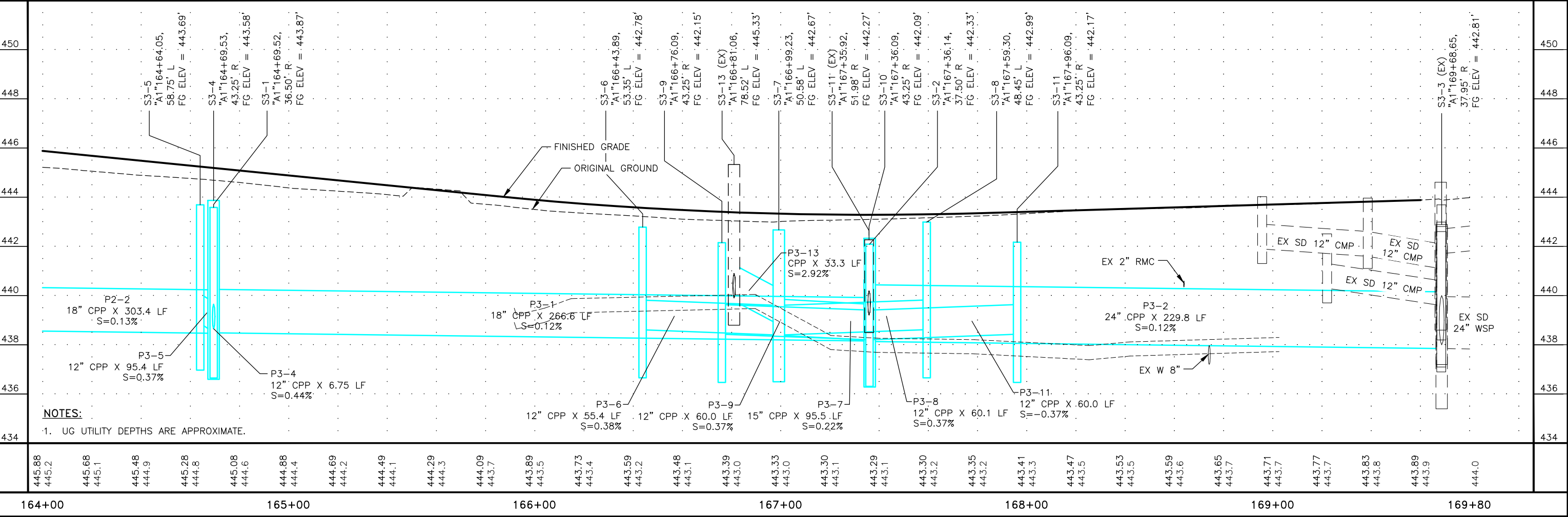
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	U3	U9



PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND

3/29/2019



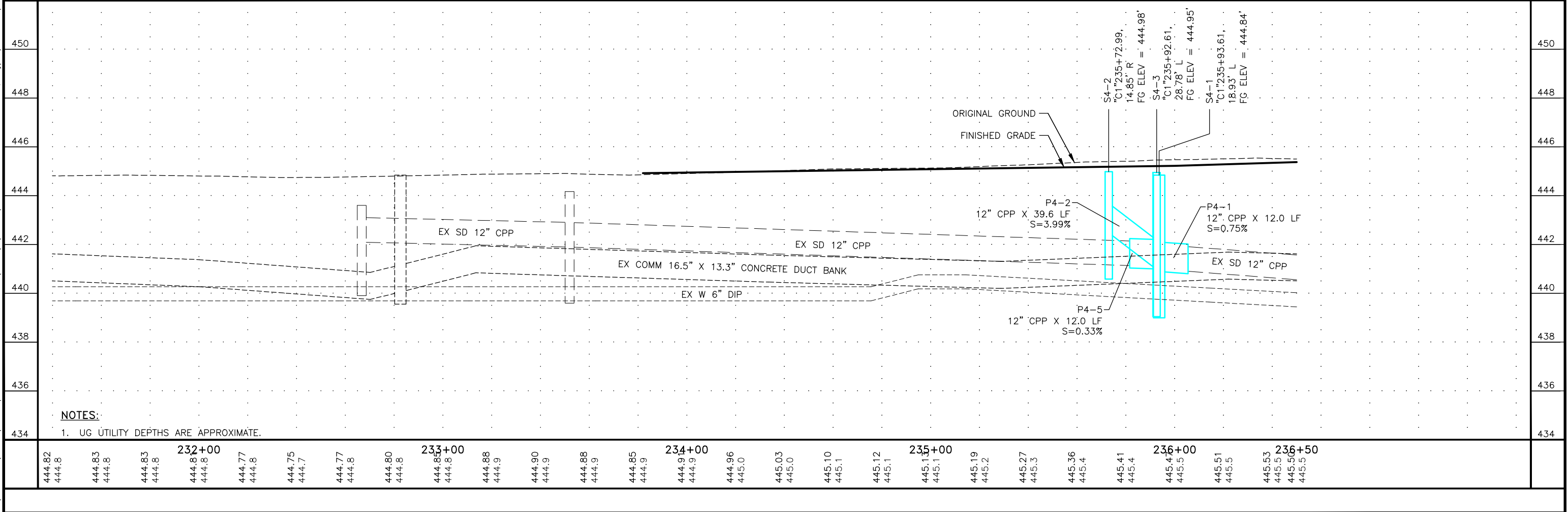
NOTES:

1. UG UTILITY DEPTHS ARE APPROXIMATE.

1. GENERAL SD NOTES ON SHEET U7



5/29/2020
PLANS-IN-HAND

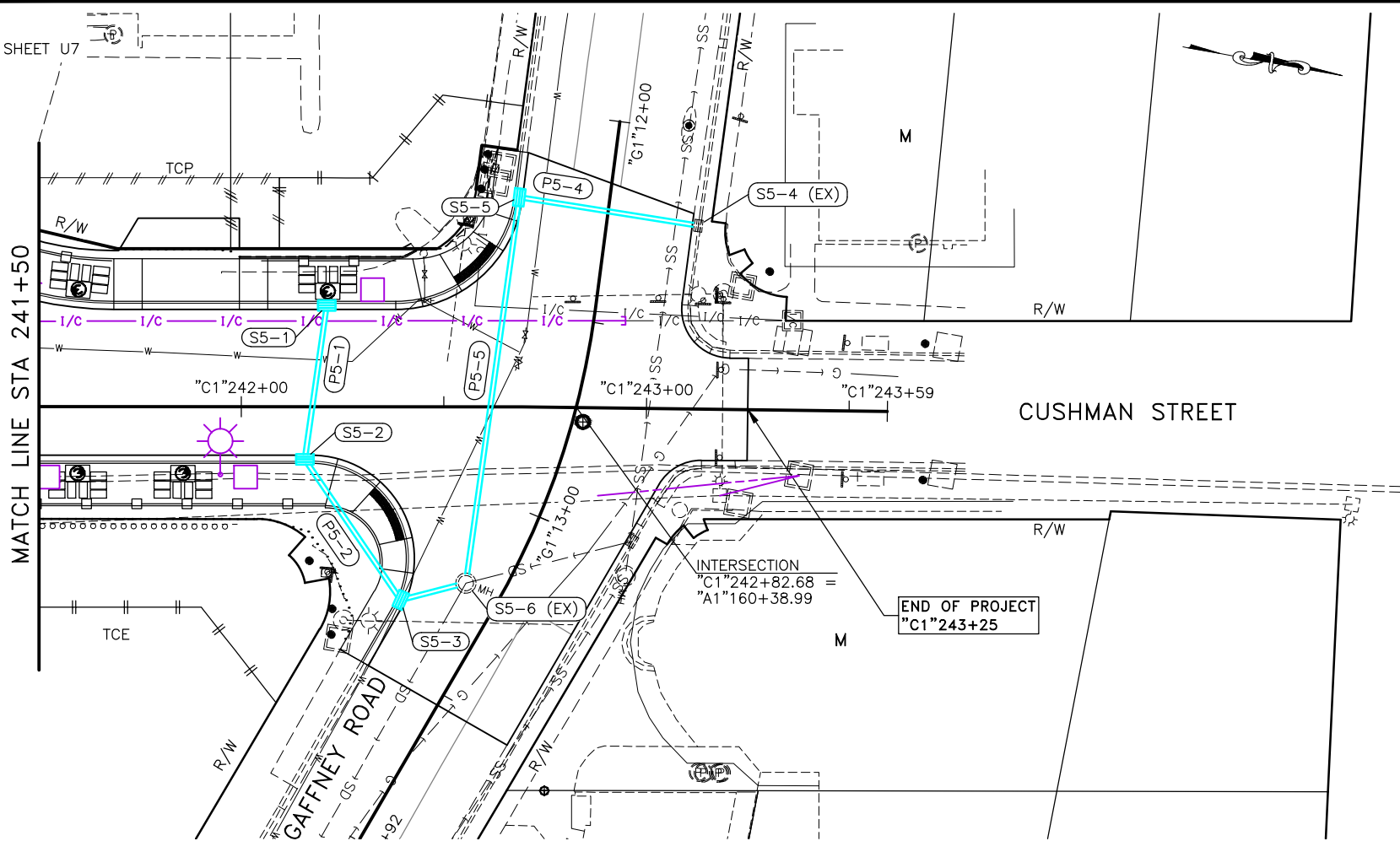


PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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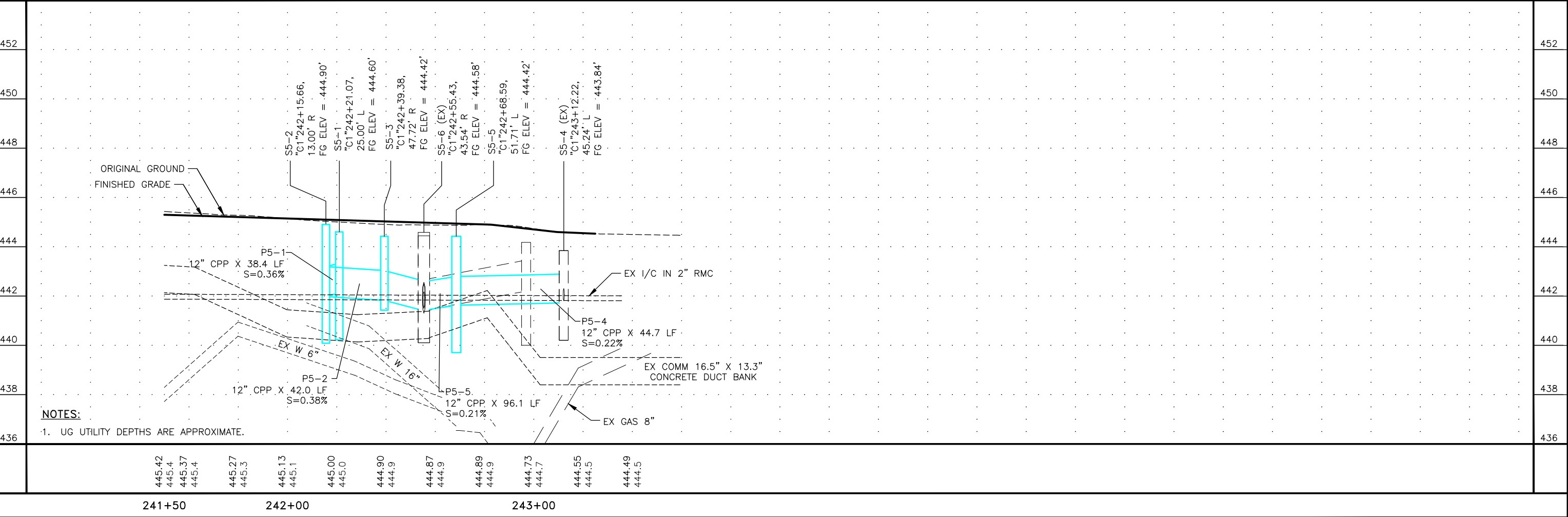
(Aaron Finkler) KE#: 00385

NOTES:
1. GENERAL SD NOTES ON SHEET U7

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	U5	U9



PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
PLANS-IN-HAND
3/29/2019



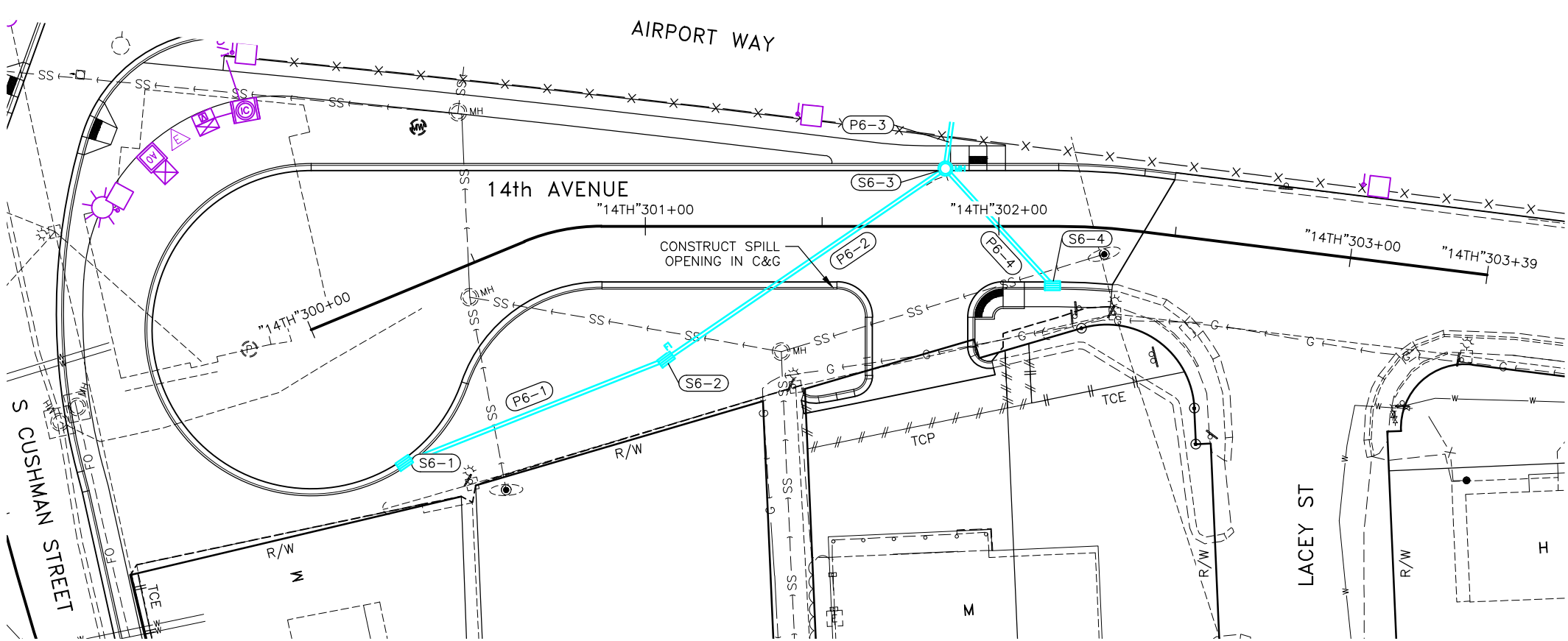
PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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(Aaron Finkler) KE#: 00385

NOTES:

1. GENERAL SD NOTES ON SHEET U7

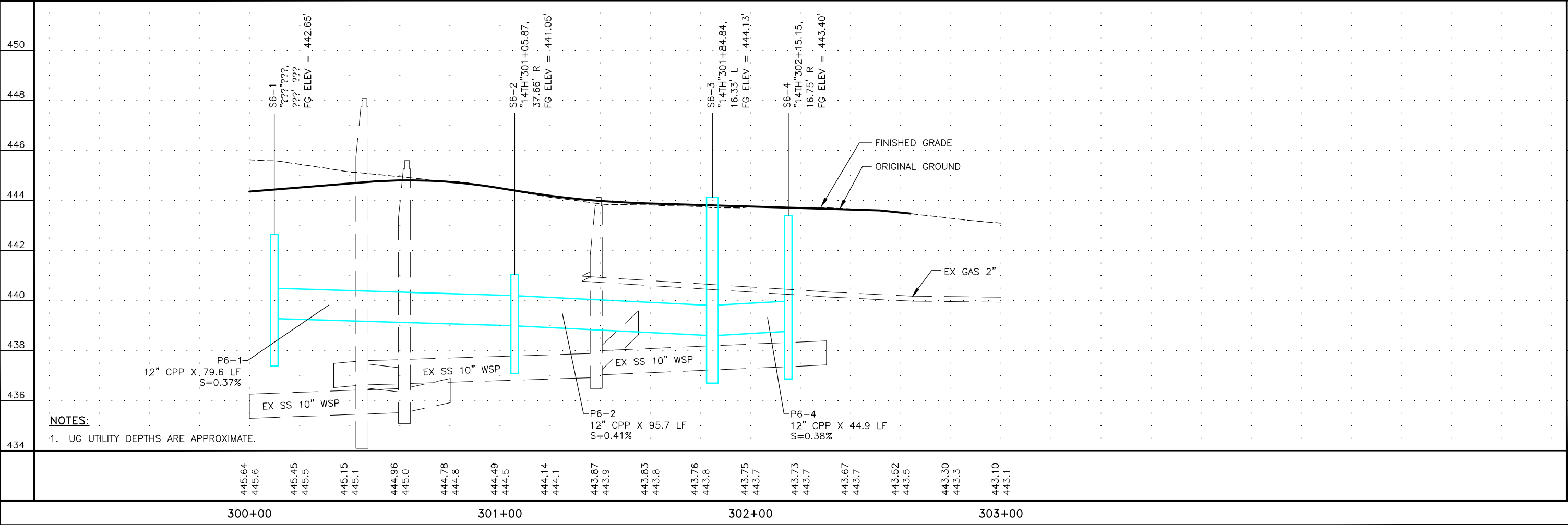
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	U6	U9



PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

5/29/2020
PLANS-IN-HAND

3/29/2019



NOTES:

1. UG UTILITY DEPTHS ARE APPROXIMATE.

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\C\Sheets\64078_U7-Ug_UTIL_SUM TABLES-U7 Fri, May/29/20 04:52pm (Bill Paddock) K#:# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	U7	U9

STRUCTURE SUMMARY											
STRUCTURE	604.0001.0001 MANHOLE, 48" TYPE I	604.0001.0002 MANHOLE, 72" TYPE II	604.0005.000A INLET, TYPE A	STATION	OFFSET	FG ELEV.	SUMP DEPTH	PIPES IN	PIPES OUT	COVER	REMARKS
S1-1			1	"A1" 154+04.8	43.7' LT	440.9'	1.5'		P1-1, INV OUT = 438.9'	STD CI AND GRATE	
S1-2			1	"A1" 154+50.0	43.8' LT	440.8'	1.5'	P1-1, INV IN = 438.7' P1-3, INV IN = 438.7'	P1-2, INV OUT = 438.7'	STD CI AND GRATE	
S1-3			1	"A1" 155+20.5	44.6' LT	440.8'	1.5'		P1-3, INV OUT = 439.0'	STD CI AND GRATE	
S1-4			1	"A1" 154+04.6	8.3' RT	442.2'	1.5'		P1-4, INV OUT = 439.5'	STD CI AND GRATE	
S1-5			1	"A1" 154+60.0	8.3' RT	442.1'	1.5'	P1-4, INV IN = 439.3'	P1-5, INV OUT = 439.3' P1-6, INV OUT = 439.3'	STD CI AND GRATE	
S1-6			1	"A1" 155+19.9	8.2' RT	442.2'	1.5'	P1-6, INV IN = 439.5'		STD CI AND GRATE	
S1-7			1	"A1" 155+41.2	43.3' RT	442.4'	1.5'		P1-7, INV OUT = 440.1'	STD CI AND GRATE	
S1-8			1	"A1" 156+01.2	43.2' RT	442.2'	1.5'	P1-7, INV IN = 439.9' P1-15, INV IN = 440.0'	P1-8, INV OUT = 439.9'	STD CI AND GRATE	
S1-9			1	"A1" 156+53.1	43.2' RT	442.4'	1.5'	P1-8, INV IN = 439.7'	P1-9, INV OUT = 439.7' P1-14, INV OUT = 439.7'	STD CI AND GRATE	
S1-10			1	"A1" 157+32.8	54.8' LT	442.7'	1.5'	P1-11, INV IN = 440.0'	P1-10, INV OUT = 440.0'	STD CI AND GRATE	
S1-11		1		"C1" 240+49.5	279.9' LT	443.4'	1.5'		P1-11, INV OUT = 440.4'	FI FRAME AND GRATE	
S1-12		1		"A1" 158+75.2	48.2' RT	444.2'	1.5'	P1-9, INV IN = 439.4' P1-10, INV IN = 439.4'	P1-12, INV OUT = 439.4'	COMB. SOLID AND STD CI AND FRAME	
S1-13 (EX)				"A1" 154+49.9	38.1' LT	441.0'	EX	P1-5, INV IN = 438.7' P1-2, INV IN = 438.7'		SOLID	ADJUST TO FG
S1-14 (EX)				"A1" 156+53.1	52.0' RT	442.3'	EX	P1-14, INV IN = 439.7'		EX	
S2-1			1	"A1" 160+84.4	36.9' RT	446.3'	1.5'	P1-12, INV IN = 439.1'	P2-1, INV OUT = 439.1'	STD CI AND GRATE	
S2-2	1			"A1" 161+64.4	39.1' RT	446.5'	1.5'	P2-4, INV IN = 439.0' P2-1, INV IN = 439.0'	P2-2, INV OUT = 439.0'	SOLID	
S2-3	1			"A1" 160+38.5	67.7' LT	445.2'	1.5'		P2-3, INV OUT = 441.2'	STD CI AND GRATE	
S2-4	1			"A1" 161+31.4	76.0' LT	446.0'	1.5'	P2-3, INV IN = 439.3' P2-5, INV IN = 439.3'	P2-4, INV OUT = 439.3'	SOLID	
S2-5	1			"A1" 161+81.8	84.0' LT	445.7'	1.5'	P2-6, INV IN = 439.5'	P2-5, INV OUT = 439.5'	STD CI AND GRATE	
S2-6			1	"A1" 161+71.4	49.1' LT	446.4'	1.5'		P2-6, INV OUT = 439.6'	STD CI AND GRATE	
S3-1	1			"A1" 164+69.5	36.5' RT	443.9'	1.5'	P2-2, INV IN = 438.6' P3-4, INV IN = 438.6' P3-5, INV IN = 438.6'	P3-1, INV OUT = 438.6'	SOLID	
S3-2	1			"A1" 167+36.1	37.5' RT	442.3'	1.5'	P3-1, INV IN = 438.3' P3-10, INV IN = 438.3' P3-7, INV IN = 438.3'	P3-2, INV OUT = 438.3'	STD CI AND GRATE	
S3-3 (EX)				"A1" 169+68.7	38.0' RT	442.8'	EX	P3-2, INV IN = 438.0'		SOLID	ADJUST TO FG
S3-4			1	"A1" 164+69.5	43.2' RT	443.6'	1.5'	P6-3, INV IN = 438.6'	P3-4, INV OUT = 438.6'	STD CI AND GRATE	
S3-5			1	"A1" 164+64.1	58.8' LT	443.7'	1.5'		P3-5, INV OUT = 439.0'	STD CI AND GRATE	
S3-6			1	"A1" 166+43.9	53.3' LT	442.8'	1.5'		P3-6, INV OUT = 438.7'	STD CI AND GRATE	

* BEFORE BEGINNING CONSTRUCTION OF NEW STORM DRAIN SYSTEM, VERIFY INVERTS OF EXISTING PIPES BEING RECONNECTED TO NEW STORM DRAIN SYSTEM. ALERT ENGINEER TO ANY DISCREPANCIES.

GENERAL STORM DRAIN SYSTEM NOTES:

1. BEFORE BEGINNING CONSTRUCTION OF STORM DRAIN SYSTEM, CONDUCT POTHOLING TO VERIFY EXISTING UG UTILITIES LOCATION AND ELEVATION WHERE PROPOSED STORM DRAIN SYSTEM CROSSES. THIS WORK SHALL BE SUBSIDIARY TO CPP PAY ITEMS. NOTIFY THE ENGINEER IMMEDIATELY UPON IDENTIFYING AN UNDERGROUND CONFLICT BETWEEN AN EXISTING UTILITY AND PROPOSED UTILITY IMPROVEMENT. SEE SECTION 202 FOR MORE INFORMATION REGARDING RESOLUTION OF UNDERGROUND CONFLICTS.
2. ANY CHANGES TO STRUCTURE LOCATION; INVERTS OF PIPES IN OR OUT, FG ELEVATION, OR SUMP DEPTH; PIPE SLOPES; AND COVER TYPE SHALL BE APPROVED BY ENGINEER.
3. FG ELEV. COLUMN REFERS TO THE GRADE POINT IN STORM DRAIN CATCH BASIN DETAIL AND PAVEMENT SURFACE IN MANHOLE DETAILS. DEPRESS THE FRAMES, GRATES, AND LIDS PER THE PLANS AND SPECIFICATIONS.

4. PIPE LENGTHS PRESENTED ARE MEASURED HORIZONTALLY FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
5. PIPE SLOPES ARE CALCULATED USING THE INVERT ELEVATION DIFFERENCE DIVIDED BY THE PIPE LENGTH AS DEFINED IN NOTE 1.
6. STATION AND OFFSET REFERENCE POINT IS TO CENTER OF STRUCTURE.

STORM DRAIN
SUMMARY TABLES

5/29/2020
PLANS-IN-HAND

5/29/2020

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\C\Sheets\64078_U7-U9_UTIL_SUM TABLES-U8 Fri, May/29/20 04:52pm (Bill Paddock) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	U8	U9

STRUCTURE SUMMARY											
STRUCTURE	604.0001.0001 MANHOLE, 48" TYPE I	604.0001.0002 MANHOLE, 72" TYPE II	604.0005.000A INLET, TYPE A	STATION	OFFSET	FG ELEV.	SUMP DEPTH	PIPES IN	PIPES OUT	COVER	REMARKS
S3-7	1			"A1" 166+99.2	50.6' LT	442.7'	1.5'	P3-13, INV IN = 438.9' P3-6, INV IN = 438.5' P3-8, INV IN = 438.5'	P3-7, INV OUT = 438.5'	STD CI AND GRATE	
S3-8			1	"A1" 167+59.3	48.5' LT	443.0'	1.5'		P3-8, INV OUT = 438.7'	STD CI AND GRATE	
S3-9			1	"A1" 166+76.1	43.3' RT	442.2'	1.5'		P3-9, INV OUT = 438.5'	STD CI AND GRATE	
S3-10			1	"A1" 167+36.1	43.3' RT	442.1'	1.5'	P3-12, INV IN = 439.2' P3-9, INV IN = 438.3'	P3-10, INV OUT = 438.3' P3-11, INV OUT = 438.3'	STD CI AND GRATE	
S3-11			1	"A1" 167+96.1	43.3' RT	442.2'	1.5'	P3-11, INV IN = 438.5'		STD CI AND GRATE	
S3-12 (EX)				"A1" 167+35.9	52.0' RT	442.3'	EX		P3-12, INV OUT = 439.2'	EX	
S3-13 (EX)				"A1" 166+81.1	78.5' LT	445.3'	EX		P3-13, INV OUT = 439.9'	SOLID	
S4-1	1			"C1" 235+93.6	18.9' LT	444.8'	1.5'	P4-3, INV IN = 441.0' P4-2, INV IN = 441.0' P4-5, INV IN = 441.1'	P4-1, INV OUT = 441.0'	SOLID	
S4-2			1	"C1" 235+73.0	14.8' RT	445.0'	1.5'		P4-2, INV OUT = 442.6'	STD CI AND GRATE	
S4-3			1	"C1" 235+92.6	28.8' LT	444.9'	1.5'		P4-3, INV OUT = 441.0'	STD CI AND GRATE	
S5-1			1	"C1" 242+21.1	25.0' LT	444.6'	1.5'		P5-1, INV OUT = 442.2'	STD CI AND GRATE	
S5-2			1	"C1" 242+15.7	13.0' RT	444.9'	1.5'	P5-1, INV IN = 442.1'	P5-2, INV OUT = 442.1'	STD CI AND GRATE	
S5-3			1	"C1" 242+39.4	47.7' RT	444.4'	0.0'	P5-2, INV IN = 441.9'	P5-3, INV OUT = 441.9'	STD CI AND GRATE	INSULATE STRUCTURE
S5-4 (EX)				"C1" 243+12.2	45.2' LT	443.8'	EX		P5-4, INV OUT = 441.8'	EX	RECONSTRUCT INLET
S5-5			1	"C1" 242+68.6	51.7' LT	444.4'	1.5'	P5-4, INV IN = 441.7'	P5-5, INV OUT = 441.7'	STD CI AND GRATE	INSULATE STRUCTURE
S5-6 (EX)				"C1" 242+55.4	43.5' RT	444.4'	EX	P5-5, INV IN = 441.5' P5-3, INV IN = 441.5'		SOLID	RECONSTRUCT MANHOLE
S6-1			1	"14th" 300+09.9	44.9' RT	442.7'	1.5'		P6-1, INV OUT = 439.4'	STD CI AND GRATE	
S6-2			1	"14th" 301+05.9	37.7' RT	441.0'	1.5'	P6-1, INV IN = 439.1'	P6-2, INV OUT = 439.1'	FI AND GRATE	
S6-3	1			"14th" 301+84.8	16.3' LT	444.1'	1.5'	P6-4, INV IN = 438.7' P6-2, INV IN = 438.7'	P6-3, INV OUT = 438.7'	STD CI AND GRATE	
S6-4			1	"14th" 302+15.2	16.8' RT	443.4'	1.5'		P6-4, INV OUT = 438.9'	STD CI AND GRATE	
TOTALS	9	1	28								

STORM DRAIN
SUMMARY TABLES

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
PLANS-IN-HAND
5/29/2020

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\U7-U9_UTIL_SUM TABLES-U9 Fri, May/29/20 04:52pm (Bill Paddock) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2020	U9	U9

CORRUGATED POLYETHELENE PIPE SUMMARY						
PIPE	INLET INVERT	OUTLET INVERT	LENGTH (FT)	SIZE	SLOPE	REMARKS
P1-1	438.86	438.70	43.7'	12"	0.37%	
P1-2	438.70	438.70	5.6'	12"	0.00%	
P1-3	438.70	438.96	69.6'	12"	0.37%	
P1-4	439.51	439.30	55.8'	12"	0.38%	
P1-5	439.30	438.70	47.5'	12"	1.26%	
P1-6	439.30	439.52	60.0'	12"	-0.37%	
P1-7	440.11	439.89	60.0'	12"	0.37%	
P1-8	439.89	439.70	52.0'	12"	0.37%	
P1-9	439.70	439.39	222.0'	18"	0.14%	
P1-10	440.04	439.39	175.8'	12"	0.37%	
P1-11	440.44	440.04	108.7'	12"	0.37%	
P1-12	439.39	439.09	208.2'	18"	0.14%	
P1-14	439.70	439.70	8.8'	8"	0.00%	
P1-15	440.02	440.00	6.2'	8"	0.32%	
P2-1	439.09	439.00	79.6'	18"	0.11%	
P2-2	439.00	438.60	303.4'	18"	0.13%	
P2-3	441.22	439.26	94.3'	12"	2.08%	
P2-4	439.26	439.00	119.8'	18"	0.22%	
P2-5	439.45	439.26	51.7'	12"	0.37%	
P2-6	439.60	439.45	36.5'	12"	0.39%	
P3-1	438.62	438.29	266.6'	18"	0.12%	
P3-2	438.29	438.00	229.8'	24"	0.12%	
P3-4	438.65	438.62	6.7'	12"	0.44%	
P3-5	438.97	438.62	95.4'	12"	0.37%	
P3-6	438.71	438.50	55.4'	12"	0.38%	
P3-7	438.50	438.29	95.5'	15"	0.22%	

604.0003.0000 RECONSTRUCT EXISTING MANHOLE		
STATION	OFFSET	REMARKS
'A1'159+14	54' RT	
'A1'161+15	58' RT	
'C1'242+55	44' RT	

604.0004.0000 ADJUST EXISTING MANHOLE		
STATION	OFFSET	REMARKS
'A1'154+50	38' LT	
'A1'163+29	59' RT	
'A1'163+32	55' LT	
'A1'169+69	38' RT	
'C1'237+22	23' RT	
'C1'240+20	31' LT	
14th'300+45	9' RT	
14th'301+38	35' RT	

CORRUGATED POLYETHELENE PIPE SUMMARY						
PIPE	INLET INVERT	OUTLET INVERT	LENGTH (FT)	SIZE	SLOPE	REMARKS
P3-8	438.50	438.72	60.1'	12"	0.37%	
P3-9	438.53	438.31	60.0'	12"	0.37%	
P3-10	438.31	438.29	5.8'	12"	0.39%	
P3-11	438.31	438.53	60.0'	12"	-0.37%	
P3-12	439.20	439.17	8.7'	12"	0.36%	
P3-13	439.90	438.93	33.3'	15"	2.92%	
P4-1	441.00	440.91	12.0'	12"	0.75%	
P4-2	442.58	441.00	39.6'	12"	3.99%	
P4-3	441.04	441.00	9.9'	12"	0.40%	
P4-5	441.14	441.10	12.0'	12"	0.33%	
P5-1	442.22	442.08	38.4'	12"	0.36%	
P5-2	442.08	441.92	42.0'	12"	0.38%	
P5-3	441.92	441.50	16.6'	12"	2.53%	
P5-4	441.80	441.70	44.7'	12"	0.22%	
P5-5	441.70	441.50	96.1'	12"	0.21%	
P6-1	439.39	439.10	79.6'	12"	0.37%	
P6-2	439.10	438.71	95.7'	12"	0.41%	
P6-3	438.71	438.65	15.2'	12"	0.40%	
P6-4	438.88	438.71	44.9'	12"	0.38%	

604.0010.0000 RECONSTRUCT INLET		
STATION	OFFSET	REMARKS
'C1'243+12	45' LT	

STORM DRAIN
SUMMARY TABLES

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
5/29/2020
PLANS-IN-HAND
5/29/2020